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PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

MARCH 5, 1927.

SUBSCRIPTION WITH
DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

Vol. CVI.

NE: CENTRAL 3617
MS: "CHEMICUS,
LONDON" (2Words)
456.

ETHER on the market NO MATTER AT WHAT PRICE

*duces Anæsthesia with greater freedom from post operation
nausea than*

**J. F. MACFARLAN & CO.'s
ANÆSTHETIC ETHER (KEITH'S)**

In keeping qualities it is unexcelled.

9 ABBEYHILL,
EDINBURGH.

32 BETHNAL GREEN ROAD,
LONDON, E.1.



THE SPECIAL BONUS offer on HOWARDS' ASPIRIN TABLETS Closes this Month

THE OFFER

On orders for 2 gross small size Howards' Aspirin Tablets, a Special Bonus is given during February and March of 48 x 10d. bottles FREE, provided a window show is made. On a £10 order this shows the retailer

**107½%
PROFIT.**

Display material free.

HOWARDS & SONS, LTD. (Est. 1797), ILFORD, Nr. LONDON.

W. J. BUSH & CO.

LIMITED

DISTILLERS OF

ESSENTIAL OILS

MANUFACTURERS OF

SOLUBLE and FRUIT ESSENCES

AND

FINE CHEMICALS

SPECIALITIES

ACETANILIDE, B.P. 1914 SALICYLIC ACID
METHYL SALICYLATE COUMARIN-BUSH
SODA SALICYLATE THYMOL

VANILLIN-BUSH

Tel. Ad.: "TANGERINE, LONDON."

Tel. No.: CLISSOLD 0461 (5 lines)

CHIEF OFFICES

Ash Grove, Hackney, London, E.8

FACTORIES AT

MITCHAM, Surrey WIDNES, Lancashire

BRANCHES at - - GRASSE, MESSINA, MELBOURNE, SYDNEY
NEW YORK, CHICAGO, MONTREAL, TORONTO, JOHANNESBURG



ALL Essences, Essential Oils
and Colours supplied under
our registered Red Ball Brand
trade mark label comply with
the requirements of the

**Food and Drugs Acts
and the Public Health
(Preservatives, etc., in Food)
Regulations, 1925.**

STEVENSON & HOWELL LTD.

Standard Works SOUTHWARK ST. London, S.E.1

Build Your Business on SOUND LINES.

Euthymol TOOTH PASTE

—A Reminder

CHEMISTS believe in Euthymol Tooth Paste and therefore recommend it; dentists do so, for the same reason. The ability of Euthymol Tooth Paste to kill dental decay germs within 30 seconds is now being impressed upon the general public in the best national and provincial daily papers. Very shortly the readers of magazines and weekly papers will also be reminded of this—the chemists' dentifrice. In these advertisements, emphasis is laid on the fact that Euthymol Tooth Paste is obtainable "of all chemists."

Show Euthymol Tooth Paste in your window, and on your counter (Euthymol Tooth Paste is sent to you in outers that lend themselves to both kinds of display). You will then secure your full share of the additional business in this sound and profitable line.

M.R.P. 1/3 per tube
M.W.P. 10/2 per doz. net

The advertisement features a large display box of Euthymol Tooth Paste. The box is open, revealing several individual tubes of the toothpaste. The box is labeled "SCIENTIFIC TOILET PREPARATION" and "EUTHYMOL TOOTH PASTE". It also mentions "PARKE, DAVIS & CO. LONDON". A circular inset on the box shows a tube of toothpaste with the text "THE BEST DENTIFRICE" and "THE BEST TUBE". Below the box, a single tube of Euthymol Tooth Paste is shown, partially open, revealing the toothpaste inside. The tube is labeled "EUTHYMOL TOOTH PASTE" and "PARKE, DAVIS & CO. LONDON". It also mentions "GRAND PRIX (Highest Award)" and "KILLS GERMS OF DENTAL DECAY IN 30 SECONDS".

**Euthymol
TOOTH PASTE**

SEND FOR TERMS

PARKE DAVIS & CO LONDON, W

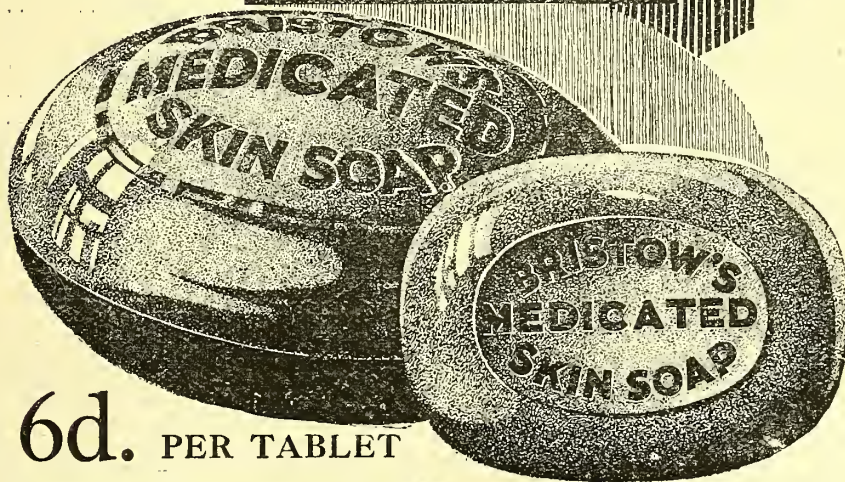
A first-class selling proposition

THIS well-established line is made with an absolutely pure and supercreamed base, blended with Ichthyol—the best and safest skin antiseptic and healer known.

You can recommend and sell this soap with the confidence that it will meet the requirements of your customers, bring repeat orders and increased business. Sold in two sizes, retailing at 6d. and 1/-, and showing good Trade Profits.

FULL SHOW MATERIAL.

Write to us for particulars of Special Bonus Offer.



1/- & 6d. PER TABLET

T. F. BRISTOW & CO. LTD.
Colindale, Hendon. N.W.9.

NATIONAL HEALTH INSURANCE DRESSINGS

B.P.C. JULY, 1925, STANDARD.

BANDAGES.

Calico , bleached,	4 yd. × 2 in.	2½ in.	3 in.
per gross ..	21/-	27/-	30/6
Calico , unbleached,			
per gross ..	17/6	22/-	26/-
Crepe , 33½% Wool ,	2½/2½ yd. × 2 in.	2½ in.	3 in.
per dozen	5/9	7/-	8/6
	6 yd. × 2½ in.	3 in.	
Domette , per dozen	7/-	8/6	
	4 yd. × 2½ in.	6 yd. × 3 in.	
Flannel , per doz.	9/-	16/6	
Open Wove , White		Per gross.	
3 yards × 1 in. ..	..	..	5/-
4 " × 1½ in. ..	..	..	8/6
4 " × 2 in. ..	..	..	11/-
4 " × 2½ in. ..	..	..	13/4
4 " × 3 in. ..	..	..	16/-
6 " × 4 in. ..	..	..	30/-
6 " × 6 in. ..	..	..	45/-
	5 yd. × 3 in.	4 in.	
Plaster of Paris , per doz.	15/-	17/6	
BORIC LINT.			
	1 oz. 2 oz. 3 oz. 4 oz. 6 oz. 8 oz. 1 lb.		
per lb. 2/-	1/9 1/8 1/7½ 1/7 1/6½ 1/6		
BORIC WOOL.			
	1 oz. 2 oz. 4 oz.		
per lb. ..	2/2 2/- 1/10		

COTTON WOOL.

	½ oz. 1 oz. 2 oz. 3 oz. 4 oz. 6 oz. 8 oz. 1 lb.
per lb.	2/3 1/11 1/8 1/7 1/6½ 1/6 1/5½ 1/5

GAUZE TISSUE.

	1 oz. 2 oz. 4 oz. 8 oz. 1 lb.
per lb.	2/3 2/1 1/11 1/9 1/8

GUTTA PERCHA TISSUE.

per yard	1/3
----------	-----

JACONET.

42/44 in. wide, per yard	1/9
--------------------------	-----

LINT. Unmedicated.

	1 oz. 2 oz. 3 oz. 4 oz. 6 oz. 8 oz. 1 lb.
per lb.	2/5 2/2 2/1 2/0½ 2/- 1/11½ 1/11

OILED CAMBRIC.

36 in. wide, per yard ..	1/8
--------------------------	-----

OILED PAPER.

20 × 30 in., per dozen	1/-
------------------------	-----

OILED SILK. Green.

36 in. wide, per yard ..	3/-
--------------------------	-----

STANDARD DRESSINGS.

	No. 1	No. 2
per dozen ..	2/3	3/6
per gross ..	26/-	38/-

TOW.

	½ lb.	1 lb.
Plain, per dozen ..	3/9	6/6
Carbolised ..	5/-	8/6

GAUZES.

	Per dozen packets.	6 yards.	3 yards.	1 yard.	½ yard.	¼ yard.
Unmedicated	8/9	4/9	1/10	1/-	7d.
Boric, 10%—15%	9/3	5/3	2/-	1/2	7½d.
Carbolic, 5%—6%					
Iodoform, 4%—5%	12/-	7/-	2/6	1/4	9d.
Picric, 1½%—2%					
Sal Alembroth, ¾%—1%	9/3	5/3	2/-	1/2	7½d.
Sublimate, 1%—15%	10/-	5/6	2/1	1/3	8d.
Double Cyanide, 2%—3%					

BUTLER & CRISPE

80-82 CLERKENWELL ROAD, LONDON, E.C.1

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OLDFIELD, PATTINSON & CO.

TELEGRAMS:
"OPIUM MANCHESTER"

TELEPHONES:
CITY 984 & 4938

Reliable House for all
Pharmaceutical Preparations

Concentrated Waters.
Concentrated Infusions.
Essential Oils.

OPIUM
B.P. Tinct. Aqueous Tinct.

Liquid Extracts.
Levigated Ointments.
Syr. Glycerophos. Co.

"Silver Churn" Dairy Specialities.

MANCHESTER.

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"Adopt, Adapt & Improve"



Write for Samples and Prices

James F. Wilkinson. Pharmacists' Printer, Pendleton, Manchester.

CUPAL NEWS

MARCH 5, 1927.



The Difference

between selling "RED RING" "FLU" Powders, and selling any other "flu" powders, is the knowledge of the fact that they are one of the "RED RING" Series lines. No line is included in the "RED RING" Series without every detail having, both from a therapeutic and a display standpoint, been most carefully studied before being offered to our customers. There are yet many days ahead this season that are bound to leave behind many "flu" victims.

No other order needs such urgent attention at the moment as the one for "RED RING" "Flu" Powders. Send it NOW.

PARCEL No. 1 (Special Offer)

	COST
12 doz. 1/- Packets	£3 12 0
(in Show Outers)	
less 10% 28 days	7 3
	£3 4 9

Also bonus of 3 doz. 1/- packets, free.

Profit 178%

PARCEL No. 2

	COST
6 doz. 1/- packets	£2 8 0
less 10% 28 days	4 10
	£2 3 2

Bonus of 1 doz. 1/- packets, free.

Profit 95%

THE "RED RING" SERIES ADDS PRESTIGE TO YOUR BUSINESS

CUPAL Ltd. Blackburn.



ORDERED BY DOCTORS ALL THE YEAR ROUND.

PEPTONE in ASTHMA

The treatment has been applied not only to **asthma**, but also to such of its congeners as **hay fever**, associated **skin affections**, **anglo-neurotic oedema**, **cyclic vomiting**, **periodic diarrhoea**, and the **migraine-epilepsy** syndrome; in short, to such conditions as exhibit an **anaphylactic character** or **sensitisation**.

Graded Series of 10 Sterules, 7/6. Continuation Course of 6 Sterules, per box 6/6.

Also two new "Shading-off" Courses for intravenous use:

Class I, Box of 6 Sterules, 7/6. Class II, Box of 3 Sterules, 4/6.

Merchant Shippers and the Home Trade are earnestly asked to co-operate with us. Enquiries solicited.



W. MARTINDALE (— MANUFACTURING CHEMIST —), 10 New Cavendish Street, London, W.1

Telegraphic Address: "MARTINDALE, CHEMIST, LONDON."

Telephone Nos.: LANGHAM 2440 and 2441.

THE METHYLATING CO., LTD. for METHYLATED SPIRIT.

KINNAIRD HOUSE, Pall Mall East, LONDON, S.W.1.

Telephone: Regent 5621.

Telegraphic Address: "Methcolim, Phone, London."

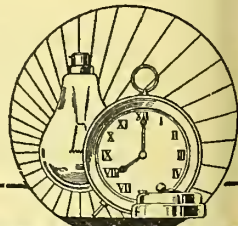


Shed a new Light on Trade

THE doors of your shop are locked, the shutters up. Business is over for the day, the last customer has come and gone. But it will be many hours before the last stroller has disappeared.

Leave the Lights burning in your shop window. Passers-by will check their steps and stop with interest. A cheerful, well-lighted window attracts after business hours. Goods are examined and prices noted by people at leisure and with the day's cares behind them. Many who stop by night to gaze will come by day to buy.

Q The Clock Switch will turn window lights on or off at any hour without attention. . .



Issued by E.D.A., 15 Savoy Street, W.C.2.

"PEOPLE BUY WHERE THE LIGHT IS BRIGHT."



P.A.T.A. Prices.

6 Tubes ... per doz. 4/6
 0 " ... " " 9/0

Showcards free on request.

200 Imitations

If evidence was required as to the quality of GLYMIEL JELLY, the above fact would surely speak for itself.

As great men almost invariably have their traducers so do the finest productions give excuse for weak imitations.

Since GLYMIEL JELLY was first put on the market there have been over 200 imitations all of which by reason of their inherent poor quality and consequent lack of public support have disappeared.

The formula and pharmaceutical procedure used in preparing GLYMIEL JELLY are such that successful imitation is well-nigh impossible.

For your own reputation's sake we strongly advise you not to offer these substitutes which from time to time crop up.

The public have learnt from experience that GLYMIEL JELLY never varies and they will surely not thank you for anything that falls short of its high standard.

Osborne, Bauer and Cheeseman.

SOLE AGENTS:

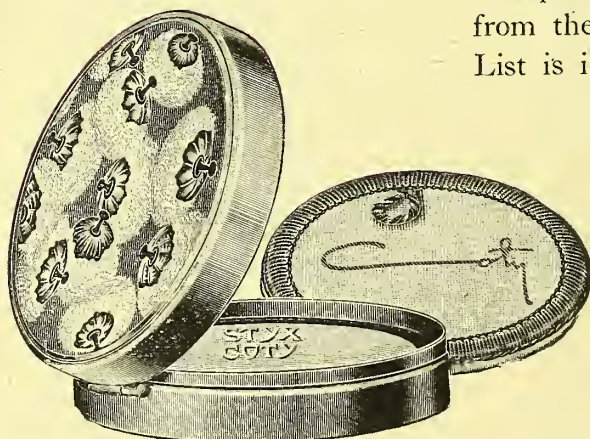
SANGERS
 258 EUSTON ROAD,
 LONDON ——— N.W.1.



CHANGE OF PRICE

Owing to the increase of raw materials and labor in France, it has been found necessary to increase the price of certain COTY Specialities.

From the 1st March, 1927, Coty Gilt Compact Powder, Series 063, will retail at 2/6 (P.A.T.A.). The prices of other Coty Specialities will alter from the 7th March, 1927, when the new Price List is issued.



Series 063

RETAIL PRICE

2/6

COTY (England) LIMITED

COTY HOUSE

3 STRATFORD PLACE

(Opposite Bond Street Station), W.1

Telegrams :
"Paricoty, Wesdo,
London."

Telephon
Mayfair
6351/2

Maw's Page

You can definitely increase your Surgical Dressings Business.

It might reasonably be assumed that the consumption of surgical dressings was settled by circumstances entirely beyond the control of the pharmacist. This is not so. The demand for surgical dressings can be definitely and substantially increased. Consistent displays, accompanied by carefully prepared educational showcards, will induce the public to keep a supply of surgical dressings in the home, and when a thing is at hand a thousand unsuspected uses are found for it. Think of the variety of uses to which cotton wool can be put.

Maw's dressings are packed with a view to helping the pharmacist to build effective, selling displays. They are dressed to arrest attention and to suggest quality. Further, a number of showcards are supplied with Maw's dressings, and these have been specially designed to drive home the fact that dressings are a household necessity and to suggest new uses.

To stock and display Maw's dressings is to increase your surgical dressings business. Place your next order with Maw's.

*It is worth bearing in mind that Maw's are
actual manufacturers of surgical dressings.*

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



FLIT has the quality!

FLIT kills the insects!

FLIT sells on sight!

FLIT brings repeat sales!

FLIT makes profits!

These five points tell the story of FLIT. FLIT has the quality because it contains a high percentage of costly ingredients that do the killing. FLIT is "CERTAIN death"—it is made to kill—that pleases a customer and makes repeat sales for your shop.

FLIT brings repeat sales, because enthusiastic users KEEP ON BUYING.

The great advertising campaign with large spaces appearing regularly in national and provincial daily newspapers is going to sell FLIT for you. Powerful advertisements will make the public buy FLIT. A Window Display will make them buy it at your shop.

Place your FLIT order NOW

IN FOUR SIZES—		Per doz.
8 oz. tins, with free Mouth Sprayer	-	17/-
16 oz. tins	-	25/6
Combination Sets (consisting of 16 oz. tin and FLIT Hand Sprayer)		-
32 oz. tins	-	42/-
128 oz. tins	-	143/-
FLIT Hand Sprayer	-	19/-

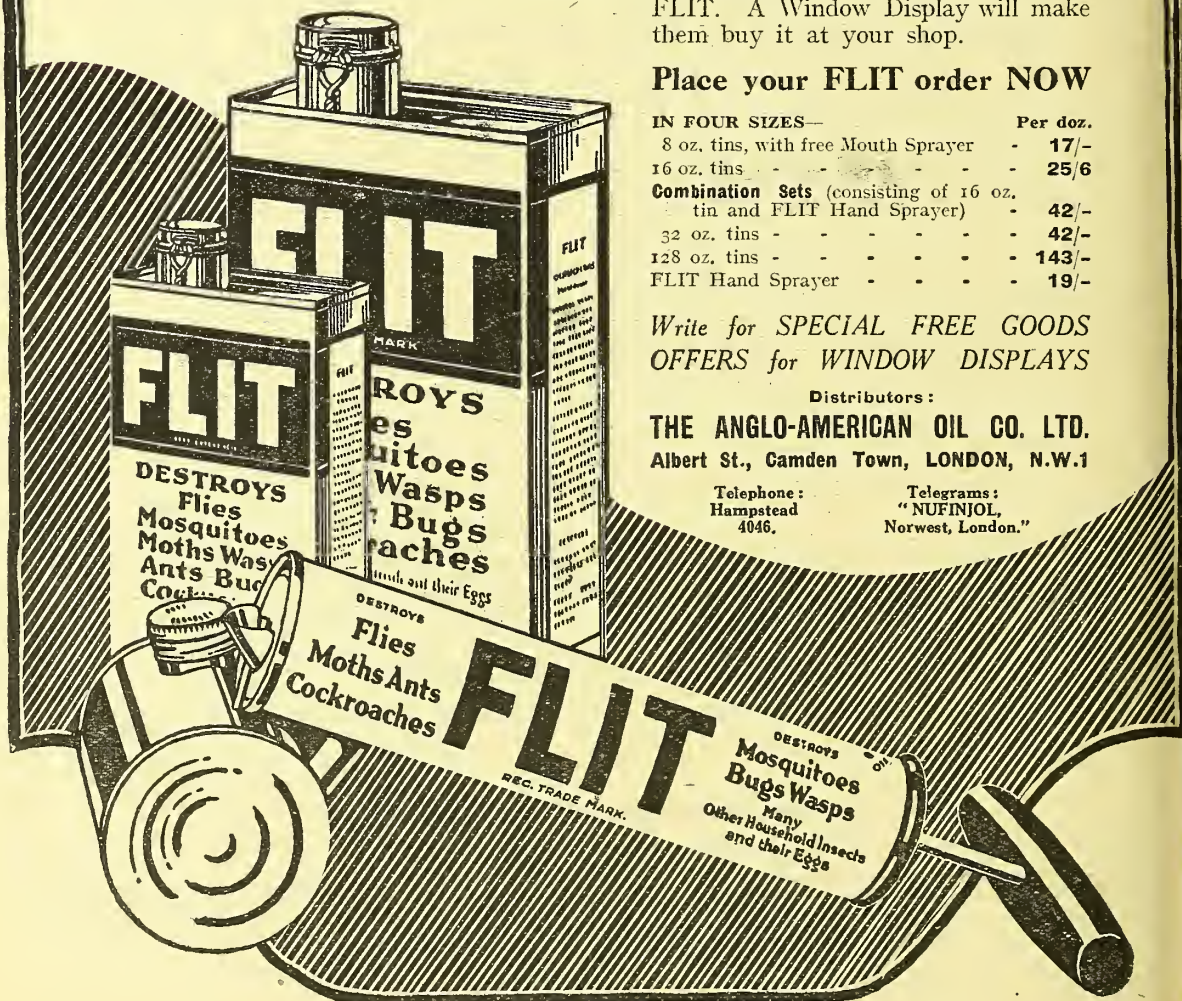
Write for *SPECIAL FREE GOODS OFFERS* for *WINDOW DISPLAYS*

Distributors:

THE ANGLO-AMERICAN OIL CO. LTD.
Albert St., Camden Town, LONDON, N.W.1

Telephone:
Hampstead
4046.

Telegrams:
"NUFINJOL,"
Norwest, London."



**Keep busy
all the year
round, Sir,
with
Moorland
Heart Shape
Tablets**



Ask us to send you details of our advantageous buying terms
W. B. CARTWRIGHT LTD., RAWDON NEAR LEEDS

SASSO OLIVE OIL

Now available in bottles as well as tins.

SASSO advertising is making people more critical of Olive Oil. It is teaching them to appreciate the perfectly regular quality of this supreme product of Italy's finest Olive groves. The tin is already a popular package. The tall elegant bottle with its gleaming golden oil has a decided display value which will create more new sales, and every sale of SASSO OLIVE OIL will give you the satisfaction of having sold the very best quality article.

It is shipped direct from Italy to this country in:—

- | | |
|---------------------------------------|-------------------------------------|
| 1 Imperial gallon tins | 1 Imperial quart bottles |
| $\frac{1}{2}$ Imperial gallon tins | 1 Imperial pint bottles |
| 1 Imperial quart tins | $\frac{1}{2}$ Imperial pint bottles |
| 1 Imperial pint tins | $\frac{1}{4}$ Imperial pint bottles |
| $\frac{1}{2}$ Imperial pint tins, and | |

Imperial measure is the only legal measure for Olive Oil.

Last year SASSO OLIVE OIL sales amounted to 27,000 tons, which speaks for itself.

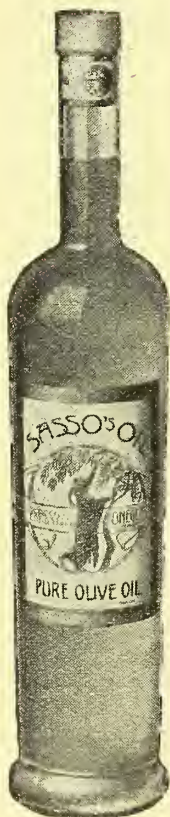
Write for New Season's samples and prices.

Producers:

**P. SASSO & FIGLI,
ONEGLIA, ITALY.**

Sole Distributors for the United Kingdom:

**FREDK. BOEHM, LTD.,
17, Jewry St., London, E.C.3.**



Beating the 'Flu

DISPELLO CATARRH SNUFF

selling in grosses
serving the Public
profitable to you
window-display free

Packed in well designed tin, suitable for the waistcoat pocket or hand-bag.
One dozen packed in cut-out display outer.

Per dozen	4/6	per dozen.
6 dozen	4/3	" "
12 dozen (with window display)	4/-	" "

SAMPLE ON REQUEST.

Special bottle-container for Export.

Prices on application.

AYRTON, SAUNDERS & CO., LTD.
34 Hanover Street - - - LIVERPOOL.



NOTA-
BENE—

**BONE
MARROW**
MALT EGG YOLK
NEUTRALISED
LEMON JUICE

The Vital Ingredient
**BONE
MARROW**

is in 'Roboleine', hence the power of this great reconstructive to create the good red blood which makes you PROOF against the germs of 'flu' and colds.

PUT YOURSELF ON
Roboleine
THE FOOD THAT BUILDS THE BODY

and fight the 'flu' with FITNESS. 'Roboleine' has been prescribed by Doctors for 20 years. Hospitals use it by the ton. 2 - 3 G. 6 - 15, of chemists.

Tear this out and post it to-day.

12 COSE COUPON

T. MESSRS OPPENHEIMER, SON & CO, Ltd., 179 Queen Victoria St., London, E.C.4

NAME _____

ADDRESS _____



We plant in the mother's mind the desire to try 'Roboleine.' She sends for a sample—and likes it. But mothers are busy people, and she may forget.

**THAT IS WHERE YOU COME IN. DISPLAY
'ROBOLEINE' AND SHOW THE SHOWCARDS.**

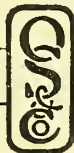
Roboleine

THE FOOD THAT BUILDS THE BODY

OPPENHEIMER, SON & COMPANY LTD.
179 Queen Victoria Street, London E.C.4.

*Manufacturers of "MAGLACTIS," the Pure
Hydrate of Magnesia with the continuous action.*

O. & S.





THE Liver Salt

for the Pharmacy

TRADE MARK



SALTEX is *the* Liver Salt for the Pharmacist because of its distinctly pharmaceutical quality. It is attractively packed, it is pleasant to take and efficient in action, and it is *not* obtainable from grocers or miscellaneous traders. You can therefore display and recommend Saltex with confidence and satisfaction, knowing that you are offering excellent value to the public and building up your *own* goodwill.

Special Bonus for Window Display

A striking showcard of original design is supplied with all orders. For a fortnight's window show a special bonus is offered which makes Saltex a most attractive proposition. Write now for specimen tin and full particulars.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

B. 770

COPYRIGHT

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ..	10/-	1/-
A complexion soap.		
PROLACTUM ..	10/-	1/-
For the lips.		
PARSIDIUM JELLY ..	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ..	22/6	2/6
A dressing cream.		
BORANIUM ..	22/6	2/6
A hair tonic.		
CLEMINITE ..	22/6	2/6
For a face lotion.		
COLLIANDUM ..	22/6	2/6
For a face tint.		
PERGOL ..	22/6	2/6
A deodorant.		
TEKKO PASTE ..	22/6	2/6
Camphor cream.		
STALLAX ..	13/6	1/6
For a shampoo.		
JETTALINE ..	31/6	3/6
For clearing the skin.		
PHEMINOL ..	36/-	4/-
A depilatory.		
MENNALINE ..	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ..	18/-	2/-
A face cream.		
STYMOL ..	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ..	22/6	2/6
Hair-curling fluid.		
BARSYDE ..	22/6	2/6
Dandruff eradicator.		
TAMMALITE ..	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ..	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ..	22/6	2/6
For whitening the hands.		
COCONOIDS ..	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ..	36/-	4/-
For obesity.		
SOFT PALERIUM ..	45/-	5/-
For wrinkles.		
LIQUID NAIL POTASH. ..	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPOTS AND AGENCIES.

South Africa: LENNON, LTD., Cape Town, etc.

India: FRAMJEE & SON, Bombay.

A. L. CHOUDRY, Calcutta.

New Zealand: SHARLAND & CO., Auckland and Wellington.

Holland: N. V. v/h HENRI SANDERS, Amsterdam.

Denmark: KARL SCHULTZ & CO., Copenhagen.

Sweden: ENEQUIST HOLME & CO., A/B, Stockholm.

Irish Free State: MAY, ROBERTS & CO., LTD., Dublin.



THE ORIGINAL
:: AND ::
STILL THE BEST

JACKEL'S
CREAM
FOR THE HAIR

SOLD EVERYWHERE.

1/9 -PER BOTTLE 2/6

Jackel's Cream has now been over 40 years on the market and enjoys a steady reliable sale. Once a customer buys Jackel's, imitations have no appeal because Jackel's is still the best.

HOW ARE YOUR STOCKS AT PRESENT?

12/- and 18/- per dozen.
Retailing at 1/9 & 2/6 per bot.

SHOW CARDS AND PARTICULARS FROM
YOUR WHOLESALE HOUSE.

JACKEL et CIE (of Paris) Ltd.
GLASGOW.

PEDICULOSIS.

SACKER'S HYGIENIC COMB

THE GREATEST NIT REMOVER EVER INVENTED

as supplied to the L.C.C. Clinics.
Highly recommended by the Ministry of Health and very highly commended by all the leading members of the school medical service in the U.K. and abroad. Price 2/9 and 5/6 each. Wholesale 24/- and 45/- per dozen. Each comb neatly packed in a metal box with directions.

"SANNAKLEEN"

Silver Plated Fine Tooth Comb is the latest and most

up-to-date
comb

for the Nursery
or Toilet Table.
Superior to all
other combs on
the market,
without doubt,
a boon and
necessity in
every home.



RETAILS
at 2/6 each.

Wholesale 20/- doz.

Each comb in an envelope,
12-dozen combs in a box.

Manufactured by:-

SACKER'S HYGIENIC COMB CO.
13 BLACKSTOCK ROAD, LONDON, N.4

OBTAINABLE FROM ALL WHOLESALE S.

SACKER OIL 1/- PER BOTT.

WHOLESALE 8/- PER DOZ.

CHEMICAL WORKS

"FLORA"

DUBENDORF, ZURICH - SWITZERLAND.

Manufacturers of

ARTIFICIAL MUSKS

100%

AMBRETTE

KETONE XYLOL

The "Flora" Musks are the essence of perfection, and striking examples of a factory with a large reputation for quality.

LONDON STOCKS

Samples and Prices from—

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.
33 St. Mary-at-Hill, London, E.C.3

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 FARRINGDON ROAD, E.C.1.

To Overseas Traders

We have a special Drug Department and expert Buyers for all kinds of Drugs, Chemicals, Hospital requisites, Photographic, Optical and Dental Goods.

Indents promptly and carefully executed for all parts of the world if accompanied by Bankers' Credit.

*Original Invoices supplied.
Moderate Buying Commission.*

*All discounts allowed.
Enquiries Invited.*

FOWLIE & BODEN, LTD. (John Murdoch Department)
29/35 CITY ROAD - LONDON, E.C.1

SOFT HANDS WHITE HANDS DRY HANDS

§ § §

Spurway's

ORANGE & LEMON CREAM

for the hands

PREVENTS SUNBURN
AND CHILBLAINS.

Checks Perspiration.

A beautiful non-greasy Cream
exquisitely perfumed and packed
in a highly artistic style.

SELLS AT SIGHT.

BRINGS REPEAT ORDERS.

An "All-the-year-round" Line

		1 doz. lots.	3 doz. lots.
1/9	size	14/-	13/-
1/3	"	10/-	9/-
10½d.	"	7/-	6/6
(sample size)			

SPURWAY ET CIE. LIMITED:

89 GREAT EASTERN ST., LONDON, E.C.2

Telegrams: "Neroli, London."
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

NEW YORK.

KINGSTON (ONTARIO).

AEROFUME
is the most active enemy
of air-borne disease
germs — yet the most
pleasant to use. The re-
sult of years of scientific
research gives us a power-
ful yet daintily perfumed
germicide in Aerofume.

SEND YOUR ENQUIRIES
TO THE
SOLE WHOLESALE
DISTRIBUTORS



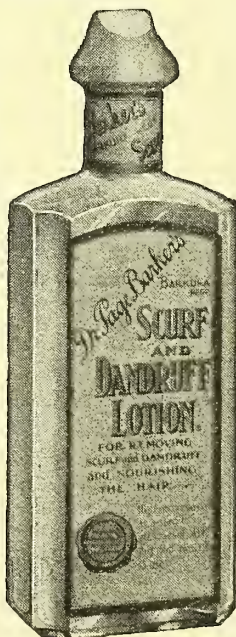
OUTFITS
complete with specially
constructed SPRAYER
and Bottle of AERO-
FUME at 5/6 each.
REFILLS in Bottles
at 2/3, 3/6 and 6/3
each.

SEND YOUR ENQUIRIES
TO THE
SOLE WHOLESALE
DISTRIBUTORS

WILLIAM EDWARDS & SONS, Wholesale Druggists' Sundriesmen
14-18 NILE STREET, CITY ROAD, LONDON.

Dr. Page-Barker's Scurf Lotion

THE specific recognised
throughout the Trade as
the one genuine and reliable
remover of Scurf and Dandruff.
Every bottle carries a guarantee.
18/- per dozen, retail at 2/6.
With an order of three dozen
you get a free bonus of three
2/6 bottles, also an attractive
showstand. Smart show
matter. Leaflets with your
own name.



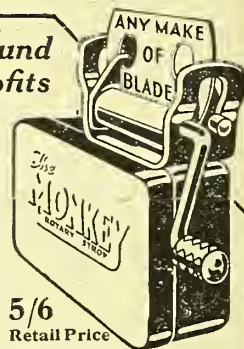
THOS. CHRISTY
& CO.

4, Old Swan Lane,
Upper Thames St.,
E.C.4.

An all-the-year-round Seller with good profits

This famous little device, quite
the best form of stropper on the mar-
ket to-day, makes a strong appeal
on account of its low price. In its
handsome nickelled case, it only
needs to be displayed on your
counter to sell by the dozen—
and every sale means 1/9 profit!

Salesmatter and particulars of this
and other fast-moving Douglas
Kirby lines on request. Obtainable
from your usual wholesaler, or direct



5/6
Retail Price

DOUGLAS KIRBY & CO., LTD., 9/10 CHARING CROSS,
LONDON, S.W.1.
Telephones: Gerrard 3147, 8063/4/5.
Glasgow - - 47 Oswald Street, C.I.

La Grande Parfumerie Juvena

Requires for each country a GENERAL
AGENT well introduced and to whom the
exclusivity of sale would be given.

PARFUMS DE LUXE POUDRE DE RIZ
EAUX DE COLOGNE ET DE TOILETTE
BEAUTY CREAMS GREASE PAINTS, LIP
STICKS, EYE LASH PREPARATIONS, STAINS
FOR THE HANDS AND NAILS.
SPECIALITIES of the "INSTITUT
PHYSIOPLASTIQUE" of PARIS.

Products in Bulk—Products packed ready for sale
—Products made to special formulas.

Send enquiries to PARFUMERIE JUVENA
36 Rue Saint Denis at ASNIERES (Seine), FRANCE.

Saville's **June** Perfumery

EASTER BONUS OFFER

Every Pharmacist in Great Britain will by this time have received our Illustrated Circular, giving details of this most generous profit-sharing scheme, showing the Retailer 104% PROFIT ON OUTLAY

If you have not yet sent your order for the Standard Parcel as detailed below, DO IT NOW.

DOZEN	DESCRIPTION	RETAIL PRICE	PER DOZ.	COST
3	 Beauty Powder - <small>Rachel Nat. Brun.</small> WITH SIFTER & PUFF <small>1 1/2 1 1/4 1/4</small>	1/-	8/-	1 4 0
3	 Beauty Powder - <small>1 1/2 1 1/4 1/4</small> WITHOUT SIFTER	9d.	6/-	18 0
1	 Beauty Powder - <small>6/12 5/12 1/12</small>	2/-	16/-	16 0
3	 Compact Powder - <small>Rachel Nat. Rouge Brun.</small> 1 Doz. 1 Doz. 1 Doz.	1/-	8/-	1 4 0
1	 Vanishing Cream -	1/3	10/-	10 0
4	 Shampoo - - - <small>No. 1 No. 2 No. 3</small> 2 Doz. 1 Doz. 1 Doz.	6d.	4/-	16 0
2	 Perfume - - - } Bonus	1/3	Free	—
1/4	 Perfume - - - }	2/6	Free	—
Less 5% Standard Display Discount				5 8 0 5 5
Also 1 Counter Demonstration Spray Bottle FREE <small>(FILLED READY FOR USE)</small>				5 2 7
1 Set "June" Showcards				

* NOTE.—The Exceptional Terms of this Offer will not permit of any variation of the quantities specified above, but Customers may order 2 or more **COMPLETE PARCELS** if they desire.

USE THIS ORDER FORM

To SAVILLE PERFUMERY, LTD., Watford, Herts.

I desire to take advantage of your **EASTER BONUS OFFER** as described in your circular, and I undertake to make a Special Window and Counter Display of "June" Perfumery for 14 days during the next 4 weeks.

Please send me *.....Standard Parcels, as above, at 102/7 each.

TERMS: 30 days Net, or 5% Extra Discount for Cash with Order.

I wish to avail myself of your CASH WITH ORDER TERMS and enclose cheque herewith as follows:—

..... Standard Parcels as above @ 102/7 = £ : :
Less 5% Cash Discount : :
£ : :

NAME.....

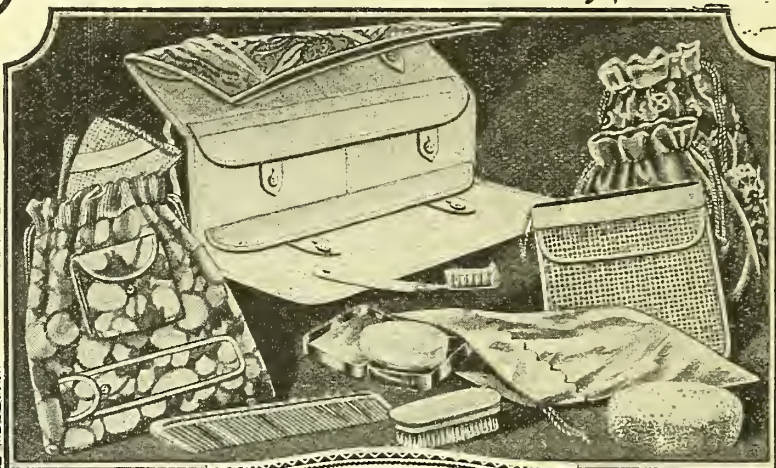
ADDRESS.....

DATE.....

*For the
Holiday
Season*

Portia
Regd.

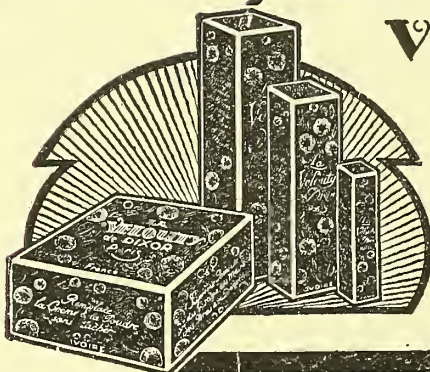
**Sponge Bags
& Holdalls**
in every pattern that sells.



MANUFACTURED IN
HYGIENIC FACTORIES BY
SOLPORT BROTHERS LTD
184-190, GOSWELL ROAD,
LONDON, E.C.1.



WRITE FOR NEW SEASON'S PRICES



VELOUTÉ de DIXOR PARIS..
COMBINED CREAM AND POWDER

The advertised line that you are asked for

DAINTY PRESENTATION

Samples free upon receipt of tradecard or billhead

Prices:—Full size pot	21/- doz.	Retail	2/9
Super Tube	22/- "	"	3/-
Large "	14/- "	"	2/-
Handbag "	3/- "	"	6d.

Made in three shades: **WHITE, IVORY and NATURAL**

Obtainable from your regular Wholesaler or direct from the Sole British Agents:
DEBACQ & HARROP, 68 Newman Street, Oxford Street, LONDON, W.1

Saville's *June* Perfumery
EASTER BONUS PARCEL

includes the following exceptional "extras":

2 doz. 1/3 "June" Perfume } Retail Value 37/6
1/4 " 2/6 " " }
1 only Demonstration Spray Bottle (filled ready
for use).

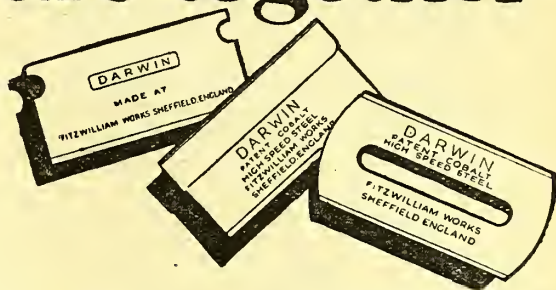
1 set "June" Showcards—including the new
handsome 2-piece cut-out.

5% Display Discount.

5% Discount Cash with order.

SEE FULL ANNOUNCEMENT ON PREVIOUS PAGE.

"The more we are together"



The new 1/- Vinolia Shaving Cream makes yet another bow on Mon. Mar. 7th, in a fine double column ad. in the "Daily Mail." Similar advertisements will appear in the "Daily Dispatch" on Tues. Mar. 8th, the "Daily News" on Wed. Mar. 9th, "Belfast Evening Telegraph" on Thurs. Mar. 10th, "Glasgow Daily Record" on Fri. Mar. 11th.

Large announcements will appear in these and other important National and Provincial papers throughout the year, so link up with this extensive publicity by making both good counter and window displays NOW.—and always keep this fine British product well to the fore.

Remember, the new 1/- Vinolia Shaving Cream with a FREE Darwin Blade in each carton can only be secured by you for a few more weeks. This offer represents the perfect all-British shaving combination, and, as the Vinolia Shaving Cream Tube said, lifting his cap to a group of Darwin blades, "the more we are together the merrier all men will be."

**DON'T
DELAY**

The special offer of
Free Blades
will be withdrawn
soon

**RE-ORDER
NOW**

Vinolia
The most refreshing
SHAVING CREAM
in the World

Push the Best British Goods

VINOLIA CO. LTD., BEBINGTON, CHESHIRE



Pile up Big Profits with Sorbo Sponges

SORBO Sponges are a line from which you may count with certainty on a good and steady protected profit all round the calendar. They are so well-known and so superior to the ordinary rubber-sponge as to be a continual advertisement for the chemist who sells them. And at this year's new reduced prices they are bound to be more popular than ever.

Foreign Competition wiped out by the BRITISH SORBELLE

Sorbelle, the new Sorbo Sponge range, sells at prices which compare favourably with those of the ordinary foreign article. It has the original Sorbo durability and softness. Soap improves it.

Order now from your Wholesaler. If any difficulty write us. Price list and trade terms on application.

Sorbo Sponge

THE MOST ABSORBENT RUBBER-SPONGE
SORBO RUBBER-SPONGE PRODUCTS, LTD.
Sorbo Works, Woking, Surrey.
Telegrams: "Sorbo, Woking." Telephone: Woking 966
(2 lines)

TRADE **Gillette** MARK

KNOWN THE **U.S.A. BLADES** WORLD OVER **Newest London Stock.**

1 Box - 29/- 3 Boxes at 28/6 These prices do not apply
5 Boxes at 28/- 10 Boxes at 27/6 for Irish Free State.

GILLETTE RAZORS

Original 25/- Silver-plated
Pocket Set, 1 blade 3/6.
Original 21/- Silver-plated
"Standard" Set, 1 blade 2/6
Gold-plated Models, 1 blade 3/-

VALET

Blades 36/- Box. 3 at 34/3
2/6 Razors ... 22/- doz.
6/- "C" Model,

No. 101 3/4 ea.
6/- do. No. G 101 4/- ea.
7/6 Model, No. 55 Set 5/- ea.
21/- Models ... 14/- ea.
2/6 "B" Qual. Strop 20/- doz.
1/6 "C" " " 8/6
6d. Strop Dressing 4/3
Shaving Cream ... 8/6
Utility Knives ... 8/6

ALL PRICES ARE NETT
FOR C.W.O. or C.O.D.
All your Razor and Blade
requirements from—

DARWIN

Gillette Auto Ever-Ready Types
3/- per 4/6 (10 blades).
1/6 per 2/3 (5 blades).
29/3 Nett Cash per box.

EVER-READY SHAVING CREAM

with Free Razor & 1 Blade
13/- per doz.

Reduced prices for Quantities.
BLADES 2/8 doz. 31/- gross.

SOUPLEX for Gillette
Type Razors.
1 3pkt.(5) 10d. 2 6pkt.(10) 1/8
19/- Box (120) Nett Cash.
to Box lots 17/-

ROLLS RAZORS
25/- "Popular" Model 15/10
30/- "Standard" " 19/-

S T A M B O I S
SAFETY RAZOR SERVICE
7 Charterhouse Buildings, London, E.C.1
Phone: Clerkenwell 3518.
34 Call Lane, LEEDS. Phone: 25946.
11 Fishamble St. 60 Donegal St. 52 Howard St.
DUBLIN. BELFAST. GLASGOW.
Phone: 4625. Phone: 7045. Phone: Central 1159.
STOCKS KEPT AT THESE DEPOTS.

Rodgers

SAFETY RAZOR BLADES

STAR & CROSS
SHEFFIELD ENGLAND
Rodgers

Controlled
Selling Price:

3/6

PER DOZ.

ensure the same comfort and pleasure in shaving that for generations have been gratefully acknowledged by users of Rodgers Razors. The "Star and Cross" trade mark is the recognised guarantee of perfection in cutlery craftsmanship. Look for it on Safety Razor Blades of Gillette or Auto-Strop pattern.

JOSEPH RODGERS & SONS Ltd.
Cutlers to His Majesty. 6 Norfolk Street, SHEFFIELD.

TRADE MARK



GRANTED 1682



**Can you afford to lose
11/- Extra Profit**

ON

**PEERLESS
& ELITE
ERASMIC
SOAPS?**

DURING week ending 26th March, 1927, the front page of the "Daily Mail," together with large advertisements in the "Daily Mirror," "Daily Sketch," "Daily Dispatch" and 18 Provincial Papers will acquaint the public of a **Special Free Offer** of a gift flask of the new Peerless Perfume in exchange for 3 Peerless or Elite Wrappers sent direct to us. This should undoubtedly

TREBLE YOUR TURNOVER

in these two soaps and firmly establish this new Perfume—

PEERLESS

Send your order for 3 gross Peerless and/or Elite before 10th March and we will, in addition to arranging for your window to be dressed by a London Firm of Professional Window-dressers, include FREE two 5/6 Bottles of the

NEW PEERLESS PERFUME

together with sample tubes of perfume and perfumed cards.

**MORE THAN 2,000 WINDOWS WILL BE DRESSED.
MAKE SURE YOURS IS ONE.**

THE ERASMIC CO., LTD., WARRINGTON.

A NEW BATH SOAP FOR YOU!

**R. F. WHITE
& Co., Limited**

Victoria Station
House

LONDON, S.W.1

4-ounce Rounds. Assorted perfumes
packed in one dozen white enamel boxes.

Price **30/-** Carriage paid on one gross or over.
2½% discount for cash in 14 days. Free Cases.

A PRICE LIST OF OUR OTHER SOAPS ON REQUEST.

BIDWELLS' PROPHYLACTIC TOOTH BRUSHES

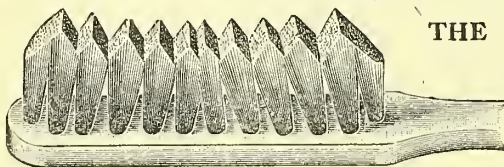
IN THREE SIZES



SILVERED WIRES.

EACH IN CARTON.

CASTLE MILLS, AXMINSTER. On 6 dozen lots own name free on Carton, if desired.

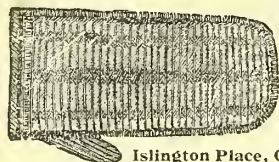


A QUICK SELLER. TRY IT!
THE "ODENTIC TWO-WAY" Regd. TOOTH BRUSH

has its tufts of **PURE BRISTLES** so arranged that it offers the maximum resistance in brushing in both directions. Made by a firm with 100 years' experience.

Two sizes: **GENTS**, (4 Rows); **LADIES**, (3 Rows).
Small Show-card with every ½-dozen.

Manufacturers: **W. R. SPEER & SON**, 215 Dalston Lane, London, E.8
Obtainable from all Wholesalers.



Specialists in the Manufacture of—
**HORSEHAIR FLESH
GLOVES,
BATH GLOVES &c.**
Wholesale and Export.

LAWRENCE & CO.
Islington Place, Cloudeley Road, London, N.1.

MRS. PARKER'S QUIN-JULIP

"THE QUEEN OF HAIR TONICS."

Shows a nett retail profit of 1s. 8d. per bottle.
Sale or return.

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For Shaving without Soap, Water, or Brush.

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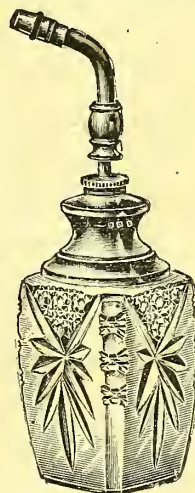
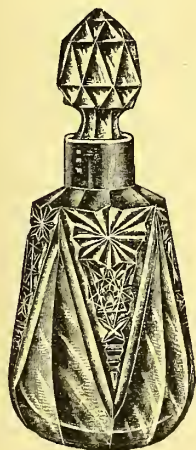
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1 "	8 oz. (1/6)	" @	FREE	12/-	1	16	0
1 "	16 oz. (2/6)	" @	FREE	21/-	1	1	0
1 "	"	"	FREE	—	—	—	—
Less 15% for Display				—	4	16	0
				—	14	5	—
Less 2½% monthly a/c				—	4	1	7
NETT OUTLAY				—	3	19	7
Parcel sells for				—	9	2	0
NETT PROFIT				—	5	2	5

YOUR PROFIT ON AN OUTLAY OF £3:19:7 = 128%.

THIS EQUALS 56% OF YOUR SALE.

PARCEL "B"				P.A.T.A. Prices.	£	s.	d.
3 Doz.	4 oz. (1/-)	size @	FREE	6/6	19	6	—
1 "	8 oz. (1/6)	" @	FREE	12/-	12	0	—
1 "	16 oz. (2/6)	" @	FREE	21/-	10	6	—
1 "	"	"	FREE	—	—	—	—
Less 10% for Display				—	2	2	0
				—	4	2	—
Less 2½% monthly a/c				—	1	17	10
NETT OUTLAY				—	1	16	11
Parcel sells for				—	4	0	6
NETT PROFIT				—	2	3	7

YOUR PROFIT ON AN OUTLAY OF £1:16:11 = 118%.

THIS EQUALS 54% OF YOUR SALE.

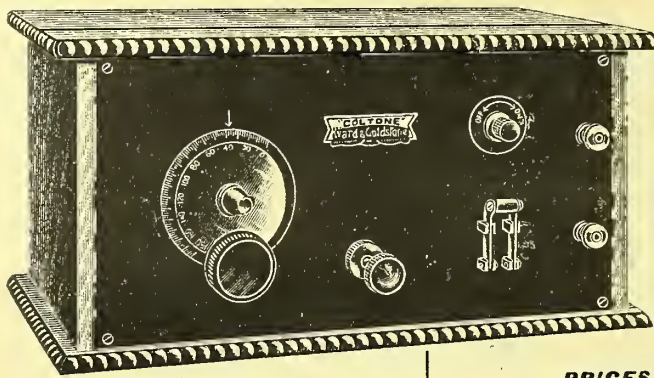
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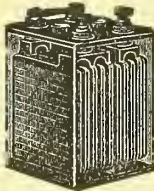
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Specially adaptable for Wireless and similar service.



Amps.	Volts	Volts	Volts
Igu.	2	4	6
20	7 6	13 6	20 -
40	10 -	18 -	27 6
60	13 -	24 -	36 -
80	16 -	30 -	44 -
100	18 -	35 -	52 6
120	21 -	40 -	60 -

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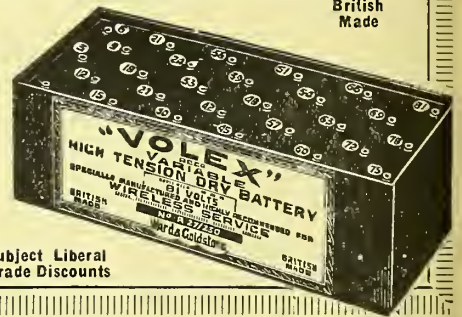
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Most economical.
Highly recommended.

Volts	Each	Doz.
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60-66	9 6	112 -
81	13 6	156 -
102	16 6	189 -

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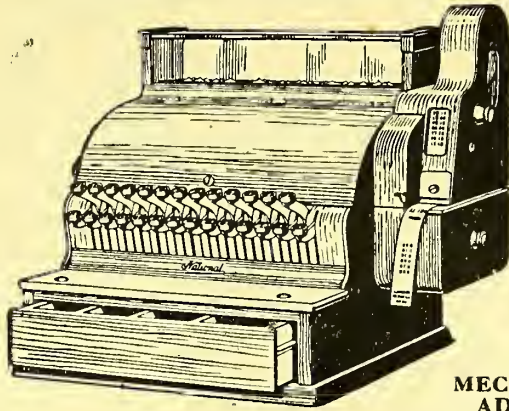
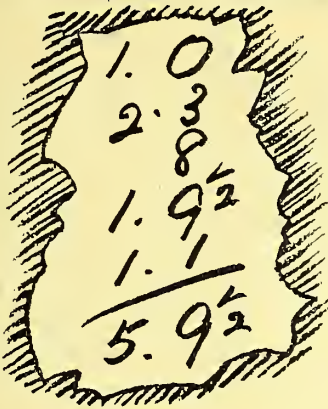
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A mistake
such as
his often
loses all
the profit
on a sale.



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For Quality
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0.2. 3
0.0. 8
0.1. 9 1/2
0.1. 1
TOTAL
-0.6.9 1/2

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saves all mental addition
and the possibility of loss.


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N.C.R. Co., Ltd.,
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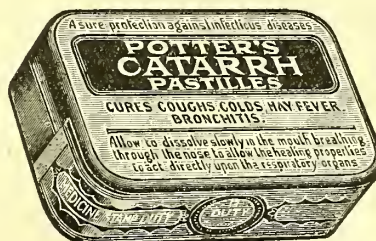
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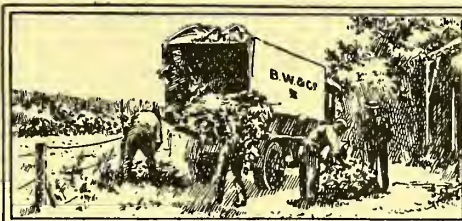
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Coming Events

Tuesday, March 8

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Evening meeting. "The Microscope and its use in Research," by Mr. J. E. Barnard, F.R.S., Department of Applied Optics, National Institute for Medical Research.

Wednesday, March 9

Birmingham Pharmaceutical Association and Branch of the Pharmaceutical Society, Grand Hotel, at 3 p.m. Meeting. Address by Mr. H. N. Linstead. At 7 p.m. annual dinner. Tickets (8s. each) from Mr. F. Smith (secretary).
Pharmaceutical Society of Great Britain (Manchester and Salford Branch), The University. Professor W. E. S. Turner on "Natural History of the Glass Container."
Pharmaceutical Society of Great Britain (Portsmouth Branch), Chemistry Theatre, Municipal College, Park Road, at 3 p.m. Mr. G. M. Painter, B.Sc., on "Man versus Nature."

Thursday, March 10

Peterborough Chemists' Association, Angel Hotel, at 6.30 p.m. Annual dinner.
Pharmaceutical Society of Great Britain (Bath Branch), Old Red House, New Bond Street, at 7.30 p.m. Whist drive and dance. Tickets (4s. each) from the secretaries.

Friday, March 11

Edinburgh Chemists', Assistants' and Apprentices' Association, 35 York Place, at 8 p.m. "Parasites," by Mr. G. Perrins; "Notes and Queries," by Mr. J. J. Blackie.
Sheffield Pharmaceutical and Chemical Society, Central School, at 8.30 p.m. Students' meeting. Mr. J. E. Crowe on "Pills."

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

"Dangerous" Drugs Tribunal

In pursuance of the Dangerous Drugs Regulations, 1926, the Home Secretary has appointed two medical tribunals—one for England and Wales, the other for Scotland—to which, as occasion arises, may be referred for examination and consideration any case in which there is reason to think that a medical practitioner may be supplying, administering, or prescribing any of the drugs to which the Regulations apply otherwise than as required for purposes of medical treatment. The tribunals are constituted as follows:—

England and Wales.—Sir Humphrey Rolleston, Bt., M.D. (chairman), nominated by the General Medical Council; Sir William Hale-White, M.D., nominated by the Royal College of Physicians of London; and Mr. John Wardle Pone, M.B., nominated by the British Medical Association, with Mr. E. W. Hansell, M.A., Recorder of Maidstone, as legal assessor.

Scotland.—Sir Robert Philip, M.D. (Chairman), nominated by the Royal College of Physicians of Edinburgh; Dr. Ashley Watson Mackintosh, nominated by the General Medical Council; and Professor Thomas Kirkpatrick Monro, M.D., nominated by the British Medical Association, with Mr. John Cowan, K.C., as legal assessor.

Substitute members have also been appointed for each tribunal.

Ideal Home Exhibition

The Ideal Home Exhibition (organised by "The Daily Mail") opened at Olympia, London, W., on March 1. An innovation this year is the "terrace of beauty," and from a business point of view chemists will find these stands of considerable interest. The exhibitors include Mr. B. Pinney, a violet grower, who has an arresting display of flowers, perfume and bath salts; W. J. Bush & Co., Ltd., represented by their well-known Potter & Moore lavender water and Buisson Frères preparations; Price's Soap Co., Ltd., with a tasteful show of Olva soap; Vinolia Co., Ltd., showing a comprehensive exhibit of soaps, perfumes and other toilet products; A. & F. Pears, Ltd., with a special display of Golden Glory soap; while the Erasmic Co., Ltd., feature the majority of their popular lines. Other exhibitors in this section are Mrs. Pomeroy, Ltd.; Maison Olofson; the Oatine Co.; and Allwood Brothers. The food section contains several displays of articles in frequent demand in pharmacies, such as Glaxo-ovo, Horlick's malted milk and Virol. Other well-known manufacturers exhibiting here include: Goodall, Backhouse & Co.; Newball & Mason, Ltd.; Sparklets, Ltd.; Schweppes, Ltd.; Be-Ze-Be Honey Co., Ltd.; and A. Wander, Ltd. In various parts of the building will be found other displays of products connected with pharmacy, notably those of D. & W. Gibbs, Ltd.; J. C. & J. Field, Ltd.; Auto-Strop Safety Razor Co., Ltd.; Harpic Manufacturing Co., Ltd.; O'Cedar, Ltd.; Reliance Rubber Co., Ltd.; Scholl Manufacturing Co., Ltd.; Thermos (1925), Ltd. The Exhibition closes on March 26.

Public Institution News

The following tenders have been accepted by the bodies named:—

Crown Agents for the Colonies.—Arthur H. Cox & Co., Ltd., tablets for Kenya.

War Office.—Burgoyne, Burbidges & Co., Ltd., drugs, etc., for three years.

At a recent meeting of the Walsall Guardians a letter was read from Mr. H. H. Thatcher, chemist and druggist, secretary of the local branch of the Retail Pharmacists' Union, suggesting that the present system of granting medical Poor Law relief was unfair to the chemists, and that better results would be obtained if prescribing and dispensing were separated, as was the practice under the National Health Insurance Acts. The letter concluded: "It hardly appears right that

a system which is not good enough for the general public should still be considered good enough for the unfortunate one who must have relief." The chairman said he resented the suggestion contained in the letter of unfair treatment, either of the chemists or the poor. It was stated that the general purposes committee had already discussed the matter, and concluded it was better for the poor to get their medicine from the doctor. The other system might be all very well in the towns, but it was different in rural districts, where a visit to a chemist's might necessitate a long journey. It was decided to take no action on the letter.

Private Arrangement

A meeting of the creditors of Mr. S. Hope-Stone, chemist and druggist, King Street, Wallasey, was held recently, when a statement of affairs disclosed liabilities £1,678 12s., of which £496 16s. 4d. was due to trade creditors. The assets consisted of stock estimated to realise £300 and other items, making a total of £437 3s. 3d. (net £387 3s. 3d.). It was reported that the debtor commenced business on April 1, 1920, with a capital of £283. The turnover of the business had been: To March 31, 1921, £2,282; 1922, £2,350; 1923, £2,063; 1924, £1,500; 1925, £1,500; 1926, £1,530; and nine months to December 31, 1926, £912. The debtor's drawings had been at the rate of £6 10s. weekly in cash, and he had paid certain insurance premiums, etc. The household furniture was claimed by the debtor's wife. It was decided to accept an offer of 5s. in the £, and to confirm the deed of assignment already executed in favour of Mr. Parkin S. Booth and Mr. Thomas Eaves, Liverpool.

Birmingham

The inclement weather is keeping both wholesalers and retailers busy.

Professor W. N. Haworth, D.Sc., gave his second presidential address, entitled the "Chemistry of Cellulose," before the University of Birmingham Chemical Society on February 28. The subject was illustrated by specimens, lantern slides and experiments.

Among the exhibitors at the section of the British Industries Fair which is being held at Castle Bromwich are:—Corfield, Ltd. (Merton); Fredk. Crane Chemical Co., Ltd.; Fulham Pottery & Cheavin Filter Co., Ltd. (London); W. G. French & Co., Ltd.; Lewis Batley & Co. (Stockport); W. J. Myatt & Co., Ltd.; Orme, Evans & Co., Ltd. (Wolverhampton); Robinson Bros., Ltd. (West Bromwich); Standard Aluminium Co., Ltd.; H. B. Slingsby (London); George Salter & Co. (West Bromwich); Taylor, Law & Co., Ltd.; Berkefeld Filter Co. (London); Croda, Ltd. (Goole); Gledhill Brook Time Recorders, Ltd. (Huddersfield); Price's Patent Candle Co., Ltd. (London); and Slack & Brownlow, Ltd. (Tonbridge).

Liverpool

Mr. W. H. Saunders, chairman of Ayrton, Saunders & Co., Ltd., is leaving Australia on March 14 by the s.s. "Ascanius" for England via South Africa.

At the adjourned annual meeting of the tennis section of the Liverpool Pharmacy Club on February 25 it was stated that the prospects for the coming season were very promising. Applications for membership should be sent to Mr. F. G. Lloyd, Derby Buildings, Edge Lane.

The 'flu continues to make business in the way of dispensing brisk. Several chemists have themselves been "down" with the 'flu, among them Mr. W. Kesterton (President of the Wallasey Pharmacists' Association), Mr. Wilson and Mr. Williamson, also of Wallasey.

Dr. I. K. Herman's lecture on Lord Lister greatly interested members and friends of the Wallasey Pharmacists' Association at the Earlston Library on February 28. Mr. H. Siddall, Vice-President, occupied the chair. Mr. H. S. Peirson mentioned that he was the only one present who had seen Lord Lister. Mr. L. G. Walton, on behalf of the Association, presented a barometer to Mr. Oliver Marsh, who has just resigned the secretaryship after serving in that capacity for seven years.

Sheffield

Chemists' accounts for Insurance dispensing during the past month amounted to £2,126.

Brightside and Carbrook Co-operative Society are opening a drug department in Fretson Road.

Several local chemists have been on a visit to the London section of the British Industries Fair.

The lectures in practical pharmacy are much appreciated by the students. A demonstration of emulsion making was recently given by Mr. Hobson.

It has been decided that an evening shall be reserved for the presentation of prizes to the local pharmaceutical students, and that an invitation be extended to their friends to be present. A gold medal is to be awarded to the first prize-winner by Mr. J. F. Eardley, Ph.C. [Corrected note.]

Miscellaneous

POISON-LICENCE APPLICATION.—Mr. W. Defrates Lyminge, has applied to the Kent County Council for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

FOOTBALL.—In an Association football match, on February 23, the Manchester College of Pharmacy played Hartley College and won by the odd goal in nine. The scorers for the College were Mower (2), Leveson (2) and Goodwin.

FIRE.—An outbreak of fire occurred on February 24 at the premises of Field & Co., perfumery essence manufacturers, Little Britain, London, E.C. The flames were confined to a laboratory, and the damage was not of a serious nature.

WINE-LICENCE APPLICATIONS.—At Bath Brewster Sessions, recently, Mr. W. J. Hallett, chemist and druggist, Stall Street, and Mr. T. Richards, Ph.C., Northumberland Place, were granted licences for the sale of medicated wines.—A similar application by Cooper & Hilton, chemists, Barnham, Arundel, has been refused.

INSTITUTE OF CHEMISTRY.—The Institute of Chemistry will celebrate its jubilee in October, and to mark the occasion a medal and prize have been established in honour of the first President, Sir Edward Frankland. The award will be made to a registered student for the best essay on a set subject of professional, as opposed to technical or purely chemical, importance. The subject for the first essay will be "The Importance of Chemistry to the Welfare of the People."

IN THE COURTS.—At Bournemouth, on February 23 Charles H. Holder was sentenced to six months' hard labour for stealing goods, value £1 11s., belonging to Mr. D. D. Buchan, chemist and druggist, Commercial Road. There was also a charge of theft from another shop.—At Rochdale Police Court, recently, Alice Mason, grocer, was ordered to pay fines and costs amounting to £1 11s. for having sold a solution containing 20.1 per cent. of free ammonia in a bottle not duly labelled and not distinguishable by touch.

VISIT TO WORKS.—Members of the North London Pharmaceutical Association, to the number of fifty, visited the photographic works at Park Royal of Illingworth & Co., Ltd., on February 24. The party was divided and various details of the works were shown. Refreshments were served, and on the motion of Mr. J. T. Walters (President) and Mr. R. H. L. Watson (Vice President) a cordial vote of thanks was accorded to the company, with particular mention of Mr. Kraushaar (business manager) and the genial town representative Mr. F. Giles, for their attention.

CHEMICAL STANDARDS IN SOVIET RUSSIA.—The Supreme Economic Council of the U.S.S.R. suggests that calcined soda, bleaching powder, and sal ammoniac should comply with the following standard requirements: Calcined soda should contain not less than 98 per cent. of sodium carbonate, and not more than 1 per cent. of sodium chloride; bleaching powder, first grade, should contain 35 per cent., and second grade 32 per cent. of available chlorine; sal ammoniac should contain not less than 97 per cent. of ammonium chloride, and not more than 2 per cent. of sodium chloride.

Scottish News

Brevities

It is proposed to hold a shopping festival in Hamilton on April 7 to 16.

At a meeting of the Carnegie Hero Fund Trustees, in Edinburgh, recently, a memorial certificate was awarded to the mother of Mr. J. R. Mowat, chemist and physicist, Stromness, who lost his life while attempting to rescue his brother from drowning (*C. & D.*, January 22, p. 103).

The tenth annual meeting of the Aberdeen and District Pharmacists' Golf Club was held in the Royal Hotel on February 22, when the retiring captain, Mr. H. M. Duncan, presided over a good attendance. The secretary, Mr. W. G. Mitchell, reported on a successful season, the treasurer, Mr. C. A. Michie, stated there was a satisfactory balance to carry forward. A communication was read from Mr. D. Ross (W. Paterson & Sons) offering to present a challenge bowl to replace the Paterson cup, which has been won outright by Mr. Forth. Mr. A. C. Bonner (W. Davidson, Ltd.) and Mr. Ross were elected the first honorary Presidents of the club in appreciation of their great interest since its formation. The officers were elected as follows:—*Chairman*, Mr. J. Forsyth; *Vice-Captain*, Mr. J. Michie; *Secretary*, Mr. Mitchell; *C. Ross*, 57 Spring Garden; *Treasurer and Assistant-Secretary*, Mr. C. A. Michie; *Members*, Messrs. D. Anderson and W. F. Hay; *Council*, Messrs. Booth, Duncan, Hay, Dugan, McConnach, Mell and Murray. A number of new members were admitted. Votes of thanks to the chairman and the retiring officials brought the meeting to a close.

Edinburgh

Prescription business is excellent in Edinburgh just now, writes a correspondent.

Miss M. M. Thomson, chemist and druggist, is commencing business at 46 Bridge Street, Leith.

Entries for the Ewing Pharmacy prize of the Edinburgh Chemists', Assistants' and Apprentices' Association will reach the secretary, Miss I. A. Purdie, not later than March 31.

Irish News

Sale of Phosphorus Rat Poison

We regret that in our report of the prosecution by the Pharmaceutical Society of Ireland of an unqualified dealer for selling a phosphorus rat poison (*C. & D.*, January 12, p. 189), we gave the name of the poison as "Romor," whereas it was "Romor." The proprietor of the line calls our attention to the fact that he has no sellers in Ireland, and, in the case referred to, a seller was stated to have called on the defendant.

Belfast

Expenditure by the Belfast Board of Guardians on medicine during the past twelve months was as follows:—Pharmacy, £6 1s. 4d.; dispensaries, £473 18s. 8d.

Alfred May, described as a medical student, was charged at the Belfast Commission on several charges of having been in possession of a quantity of morphine tablets between September and December, 1926. (*C. & D.*, January 8, p. 32.) His Lordship ordered the prisoner's detention in custody until the next Commission, when the case will be further considered. May undertaking to submit to prison discipline in the meantime.

At Belfast City Commission, on February 24, Nicholas Gallagher pleaded "Not guilty" to a charge of having, on December 17, broken into and entered the shop, 225 Regent Road, occupied by Joseph Moffet, R.D. (*C. & D.*, February 26, p. 243.) E. O'Donnell and J. J. Ward pleaded "Guilty" to the same charge. The Lord Chief Justice passed the following sentences:—O'Donnell, seven months' hard labour; Gallagher, twelve months' hard labour; and Ward, six months' hard labour.

A meeting of the general committee of the Chemists' and Druggists' Society of Ireland was held on February

24, the President (Mr. F. Storey) in the chair. There were present also Messrs. W. J. Rankin, S. Gibson, R. McBirney, W. Martin, T. Sandford and J. Moffet. The various committees were appointed for the ensuing year. The Haslett Memorial Medal of 1927 has been awarded to Mr. Thomas Cromie, Drumgreenagh, Rathfriland, co. Down. Mr. Cromie served his apprenticeship with Mr. T. Shannon, R.D., Rathfriland.

Mr. J. J. Fullerton, R.D., is opening a Medical Hall at 262, Crumlin Road, Belfast. Mr. Fullerton served his apprenticeship with the late Mr. T. N. Moffet, and has latterly been manager for Mr. R. S. Chapman, Howard Street, Belfast. Miss Wellwood, L.P.S.I., has taken over the pharmacy carried on at 26 Upper Newtownards Road, Belfast, by Mr. R. J. Cotton, who has decided to emigrate to New Zealand. Miss Wellwood is a sister of Mr. J. Wellwood, Ph.C., 209 York Street and 132-134 Grosvenor Road, and has been in business with her brother.

Dublin

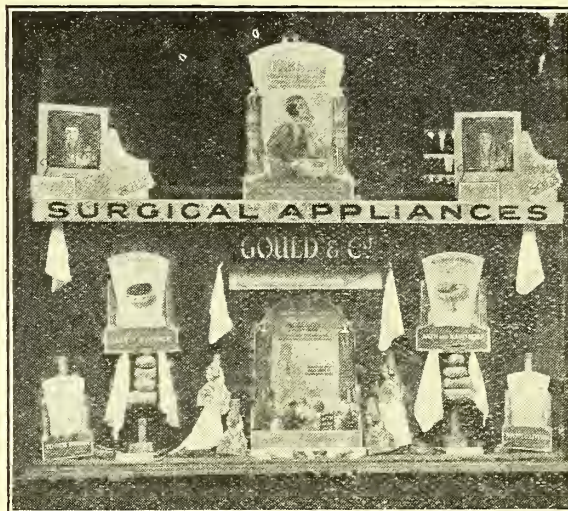
Sir Thomas Robinson, Ph.C., has been re-elected a director of the Metropole Hotels Co., Ltd., of which he is chairman.

Chemists' Windows

Photographs of windows sent to the Editor for reproduction should be accompanied by notes as to the arrangement of the displays.

Toilet Requisites Show

The window of Gould & Co., North Audley Street, London, W.1, with Ipana tooth paste display. A feature



of the window is that bath requisites are also shown. The general effect of the coloured showcards is excellent.

Gazette

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

HIBBERD, A. M., "Holmswood," Chapel Lane, Longton, lately carrying on business at 1 Market Street, Preston, chemist.

SUPPLIES FOR PORTUGUESE HOSPITALS.—By the provisions of a recent decree Portuguese and imported pharmaceutical specialities for use in Government-controlled hospitals in Portugal are exempt from payment of the medicine stamp tax. This exemption is granted by the Customs officials only upon presentation by the director of the hospital of a declaration in duplicate containing a list of the specialities to be imported, and a statement as to their intended use.

American Notes

By "The Man from London."

PRICE-CUTTING "WAR."—All branches of the drug trade appear now to be interested in the price-cutting "war" between the Owl Chain drug stores and E. R. Squibb & Sons, New York. The Owl Chain campaign has resulted in Squibb's dental cream being sold as low as a penny a tube. As listed, the cream costs \$3.20 per dozen. This drastic action has followed the refusal of Squibb & Sons to give a larger discount to the Owl stores than to other buyers. Independent retailers have allied themselves with Squibb, and stores in the vicinity of Owl stores are meeting cut with cut.

SURVEY OF PHARMACEUTICALS.—The Bureau of Chemistry of the U.S. Department of Agriculture has begun a survey of all the more important pharmaceutical preparations, with a view of eliminating substandard drugs from the market. This survey will cover a wider range of products than was investigated in the first survey by the Bureau and will include drugs in the form of compressed tablets, capsules, ampoules and other forms, whereas the first survey included chiefly hypodermic tablets and potent galenicals. The co-operation of the pharmaceutical industry is invited in this survey, there not being any doubt, the Bureau states, of the possibility of mutual helpfulness and of general benefit from the exchange of information and the results of research on such subjects. It is the intention, however, to bring legal action whenever variations from standards are wider than are warranted under adequate supervision.

NEW YORK PHARMACEUTICAL CONFERENCE CITED.—Complaint against the New York Pharmaceutical Conference, Inc., representing 3,200 retail druggists in New York city, was issued recently by the Federal Trade Commission, charging the organisation with having established resale prices among its members and thereby boycotting drug manufacturers who did not agree to the fixing of a resale price. The published answer of the Conference denies the allegations, admitting only that a trade committee existed, the function of which is to disseminate propaganda concerning proper merchandising methods among manufacturers, jobbers, wholesalers and retailers engaged in the production and sale of drugs. The complaint charges the members, officers and agents of the New York Pharmaceutical Conference with using unfair methods of competition in commerce in violation of Section 5 of the Act creating the Federal Trade Commission. "Courtesy Cards" have been issued by the Conference to retailers, manufacturers, etc., who have agreed to maintain wholesale prices for their products, these "Courtesy Cards" being designed to influence and induce retail druggists to buy only from said manufacturers, jobbers, and wholesalers holding them, and boycotting non-holders.

BILLS CONCERNING MEDICINAL LIQUOR.—Representative Green, of Iowa, has introduced a Bill into the House, proposed by the Treasury Department, which would create a private corporation with a capitalisation of about \$110,000,000, and which would be under full Government control, for the manufacture, sale and distribution of medicinal whisky. The Bill proposes to sell to the public a maximum of about \$35,000,000 of gold notes of the corporation, and, in case the public does not respond, to grant the Treasury authority to invest in these notes. The proposed corporation will be permitted to condemn and purchase all whisky stocks, to manufacture whisky, and will be the sole seller of whisky for medicinal purposes. At first, the Secretary of the Treasury will name the directors of the corporation. Senator Hawes has introduced a Bill into the Senate which would remove the restrictions of the Volstead law as to the use of liquor for medicinal purposes. Senator Hawes's Bill would amend the Volstead law by providing that nothing in the law shall prohibit or limit the manufacture, sale or transportation of intoxicating liquors for medicinal purposes, and that nothing in the Act shall prohibit or limit the professional privileges of graduated, licensed physicians from exercising their scientific judgment in prescribing alcoholic beverages for medicinal purposes.

SHORTAGE OF MEDICINAL WHISKY.—Mr. L. C. Andrews, Assistant Secretary of the Treasury, recently announced

that it would be necessary for Congress to enact legislation at the coming session to replenish the country's supply of medicinal liquor. He said that there is about 15,000,000 gallons of whisky under government control in the thirty-seven concentration warehouses, and that the average consumption of medicinal whisky during the last three years has been between two and three million gallons. New stocks of whisky must be immediately created, it appears, to allow for the necessary ageing process. The Treasury Department will present a Bill to Congress designed to overcome this emergency, and to provide a plan for the manufacture of a new supply. There has been no whisky distilled legally since late in 1921, when the Willis-Campbell Beer Bill was enacted, stopping all distillation except that of alcohol for industrial purposes. Provision was made then for renewal of distilling for the replenishment of supplies, but these provisions are said to be difficult to administer.

South African News

From "C. & D." Correspondents.

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province

PERSONAL.—Among the visitors to the busy city of Port Elizabeth at the end of January were Mr. and Mrs. Thomas Harley, of Perth, Scotland, who are spending a six months' holiday in South Africa.

ALLEGED FRAUD ON AN ANALYTICAL CHEMIST.—On January 4, John Henry Harris, described as a broker, was charged at Cape Town with theft by means of false pretences from Mr. John Muller, analytical chemist. The Crown prosecutor said it was alleged that Harris had fraudulently pretended to Mr. Muller that a syndicate had been formed to develop tin mines on a farm of Mr. Krige, brother of the late Speaker of the Union House of Assembly, in the Stellenbosch district. Harris had stated that among the directors of the syndicate was the Hon. A. P. Fowrie, Administrator of the Cape Province, and that it was proposed to appoint Mr. Muller chemist and consulting engineer to the concern, which was known as Stellenbosch Tins, Ltd. On the strength of these statements, Harris, it is alleged, obtained a cheque for £5 from Mr. Muller. The accused was remanded.

Natal

UNSUCCESSFUL CLAIM FOR DAMAGES.—Judgment was given by the Durban Magistrate, recently, in a case where an Indian, named Samat Singh, claimed £100 damages from Mr. F. C. Oldfield, chemist and druggist, Berea Road, Durban, for expenses arising from the alleged supply by the latter of potassium bromide instead of Epsom salt. The magistrate (Mr. Lavoipiere) said the evidence was conclusive that Singh did take potassium bromide, and was subsequently ill, and also that the packet from which he had taken a large dose did contain bromide of potassium. But where Singh's case failed was in the fact that he did not retain the packet, and there was nothing to show that the packet was actually supplied by Oldfield. In the circumstances the magistrate said he could not find that Mr. Oldfield had shown any neglect. He was an experienced chemist, and when asked for Epsom salt would instinctively have gone to the jar containing the salt, for which he was continually asked. There would be absolution from the instance.

Transvaal

PERSONAL.—Mr. Last, of Flemings, Ltd., Eloff Street, Johannesburg, has been appointed secretary of the Associated Societies of South Africa.

BUSINESS CHANGES.—Mr. E. H. Simpson, chemist and druggist, Ophirton, has retired from business at the age of seventy-seven.—Mr. Weinbrunn, chemist and druggist, Jeppestown, has opened a branch at Bez Valley.—Messrs. Ashers Pharmacy, Ltd., Eloff Street, are opening a branch shop in Pritchard Street, Johannesburg.

Colonial and Foreign News

GERMAN ALCOHOL.—The German Minister of Finance has fixed the price of alcohol for export at 38 marks per 100 litres, from January 1, 1927, in the place of 7 marks, the price in force since March 1, 1926. This step is motivated by the increase in the quotations for spirit since November in the world market.

TURKISH EAU DE COLOGNE.—Turkish manufacturers of eau de Cologne complain that the society which administers the alcohol monopoly is seriously prejudicing their business by refusing to supply other than denatured alcohol. The monopoly maintains that the alcohol supplied to manufacturers of perfumes is merely coloured, to prevent its use for making "raki" (an alcoholic beverage), and not otherwise altered. The matter has now been referred to the Chamber of Commerce.

DUTCH PHARMACISTS TO VISIT GERMANY.—The Netherlands Society for the Advancement of Pharmacy informs its members that arrangements have been made for a party to visit a number of pharmaceutical factories, chemical works, essential oil distilleries, as well as scientific institutions, in Berlin and Leipzig from May 15 to 26. The programme for the trip is being drawn up in collaboration with Professor Dr. H. Thoms and Dr. Salzmann. The cost of this "study trip" will be 200 florins a member.

EGYPTIAN CONTROL OF CHEMICALS.—An Order of the Egyptian Government stipulates that consignments of sodium sulphate, magnesium sulphate, tartar emetic, and carbon tetrachloride intended for medicinal uses imported from abroad must first be submitted to the Department of Health for analysis before they may be delivered by the postal authorities, or cleared through the customs. If the article is found unsuitable for medicinal use, the consigner will be allowed one month in which to effect the return of the goods, otherwise they will be destroyed, and no claim for compensation will be allowed.

MEXICAN MEDICINE STAMP DUTY.—A new tax, taking the form of a stamp, has been introduced in Mexico on all proprietary medicines and toilet preparations. The charge for the stamp is five centavos per unit on foreign goods, and two centavos on those of Mexican manufacture. The unit varies with different classes of goods as follows: For pills, plaster, rouges, pomades, cosmetics and lotions, 100 grams or fraction; for face creams, 250 grams or fraction; for vaseline, salts, powders, emulsions and syrups, 500 grams or fraction; for soaps and medicated cotton or gauze, 1 kilo; and for vaccines, 5 ampoules.

POLISH ALCOHOL PRICES.—The distribution of alcohol in Poland is a Government monopoly, which provides for the supply of a fixed amount, according to the importance of the business, to each pharmacy at a reduced price for the preparation of galenicals; the amount allotted to each business is determined annually. For the year 1927 the price at which alcohol will be supplied to pharmacists for making official preparations and absolute alcohol has been fixed at 990 zlotys per 100 litres. For the manufacture of perfumes, glycerin soaps and cosmetics, alcohol will be supplied at the rate of 500 zlotys, and at 150 zlotys per 100 litres when used in the manufacture of synthetic remedies. Denatured alcohol is supplied at 130 zlotys per 100 litres.

CHINESE DRUG TRADE.—Chichow, now known as Ankwo, in the province of Chihli, is one of the five important Chinese drug-distribution centres in North China, the other centres being Singtai, in Chihli, Yuchow and Hweihien in Honan, and Changtze in Shansi province. The markets in Hweihien and Singtai deal specially in Shansi products and are open only in early summer; the Changtze market is for Shensi and Kansu products and opens only in winter; the Chichow and the Yuchow markets are for general drugs, and are open twice a year. The Chichow market opens once in the winter. During the market season over a thousand drug dealers from different parts of the country establish their temporary headquarters at Nankwan, where business is largely conducted through brokers. Besides the market for wholesale dealers, known as the "large drug market," there is also a "small drug market" for retailers.

STANDARDS FOR RUSSIAN DRUGS.—A commission consisting of Professors N. A. Monteverde, N. N. Monteverde, L. G. Spassky, and J. G. Oberhard, of the pharmaceutical faculty in Leningrad, assisted by MM. E. Shass, director of the drug export bureau, and W. J. Bienstock, head of the export section of the chamber of commerce, has elaborated a list of standard requirements for fifty-one indigenous drugs. The export of medicinal plants is a monopoly of the Soviet, and so far a definite standard existed only for wormseed, the export of which is a monopoly of the commissariat for trade. It is expected that the standards laid down by the commission will be officially enforced at an early date—that is to say, export permits for indigenous drugs will be granted by the Soviet commissariat for trade only if they comply with these standards. Where the drug fails to reach the prescribed standard an export permit will be issued provided the article is declared to be not of standard quality, together with a specific statement of its deficiencies. The following are examples of the new standards: Cantharides, moisture 8.5 per cent., foreign matter 3 per cent., dust 5 per cent., ash 8 per cent., cantharidin content 0.6 per cent.; Ergot, moisture 5 per cent., other parts of plant 3 per cent., foreign matter 4 per cent., dust 4 per cent., ash 5 per cent., alkaloids 2 per cent., fatty oil 30 per cent., water-soluble extract 12.5 per cent.; Bearberry leaves, moisture 10 per cent., other parts of plant 4 per cent., foreign matter 5 per cent., dust 4 per cent., ash 4 per cent.; Liquorice root (natural), moisture 8 per cent., other parts of plant 5 per cent., foreign matter 5 per cent., dust 6 per cent., ash 8 per cent., glycyrrhizin 6.7 per cent., water-soluble extract 30 per cent., carbohydrates 34.5 per cent. In addition to these standard requirements, a description of each drug and of the plant from which it is obtained is given, with particulars regarding collection, drying, method of packing, size and nature of packages, etc. It is proposed to extend the list to about seventy-five drugs.

SPECIALITIES IN SPAIN.—After prolonged negotiations an agreement has been reached between the Union Farmaceutica Nacional, representing the Spanish pharmacists, on the one hand, and the "Especialidad Farmaceutica" (the Union of Manufacturers of Pharmaceutical Specialities), on the other hand, regarding the sale of proprietary medicines. The chief provisions of this agreement are as follows:—(1) Pharmacists undertake the obligation to sell the preparations placed on the market by members of the "Especialidad Farmaceutica" at the price fixed by the manufacturer and indicated on each package; (2) not to exhibit any preference for any product to the detriment of another article, or to influence the purchaser, either directly or indirectly, or to substitute another product for that demanded by the customer. On the other hand, the Union of Manufacturers of Pharmaceutical Specialities engages itself to co-operate in bringing about the limitation of the sale of this category of goods to pharmacies, provided the latter offer effective guarantees of being strictly impartial when retailing these goods to the public. The retail price of pharmaceutical specialities shall be so calculated as to allow a net profit of 20 to 25 per cent., free of all charges for postage, freight and packing. A mixed commission, consisting of six members, three to be appointed by each of the two contracting parties, will be empowered to supervise the execution of the provisions of this agreement. If a pharmacist commits a breach of these terms he renders himself liable to a penalty, the amount of which will be fixed by the mixed commission, but in no case is it to be less than 1,001 pesetas, and the same fine will be inflicted on any manufacturer who fails to observe his contracted obligations. However, this agreement does not hold good in places where more than five pharmacies are established if less than 70 per cent. of the pharmacists in business refuse to sign the prescribed obligation to comply with its provisions. It is interesting to note that the Spanish pharmacists, individually as well as collectively, i.e., as members of the National Pharmaceutical Union, undertake not to support in any form the sale of products manufactured by co-operative organisations, and not to participate in the establishment of new laboratories by co-operative undertakings for the manufacture of pharmaceutical specialities.

Legal Reports

Injunction Granted.—In the Chancery Division of the High Court, London, on February 25, Cadbury Brothers, Ltd., Bourneville, sought an injunction to restrain A. F. Seim & Co., chocolate manufacturers, Fitzroy Square, W.1, from passing off packets of Pocket Milk Tray chocolates as the Milk Tray chocolates manufactured by the plaintiffs. Sir Duncan Kerly, K.C., and Mr. B. Hall appeared for the plaintiffs, and Mr. W. F. Swords for the defendants. Mr. Swords said his clients were willing to treat the motion as the trial of the action, and would submit to a perpetual injunction and costs. He would also consent to an inquiry as to damages. Mr. Justice Tomlin made orders correspondingly.

Unqualified Assistant's Sale of Poison.—In Airdrie Sheriff Court, recently, Mr. W. J. Malone, chemist and druggist, 101 Whifflet Street, Coatbridge, and Miss Catherine O'Donnell were summoned by the Pharmaceutical Society under the Pharmacy Acts. Miss O'Donnell was charged with having sold lysol and oxalic acid, she not being a duly registered chemist; and Mr. Malone was charged with allowing her to sell these poisons. The defence was that Dr. Thomas Prentice, now residing at Portsmouth, was "consulting" in the shop at the time, and supervised the sale; and evidence to this effect was given by the practitioner referred to. The sheriff acquitted both the defendants of the respective charges. Mr. W. P. Russell, who appeared for the Pharmaceutical Society, asked for a stated case.

Osteopath's Fees not Recoverable.—In Bloomsbury County Court, London, on February 24, Mr. Edmund L. Macnaghton, osteopath, Weymouth Street, W.1, sought to recover the sum of £30 9s. from Mr. C. H. Douglas, timber merchant, Bishopsgate, E.C., for professional services rendered to the defendant's wife. The defence to the action was that the treatment was unnecessary and unsuitable. Mr. Macnaghton said that his fees were £3 3s. for each consultation and £2 2s. for each subsequent visit. He obtained his degree in America. In cross-examination he said, "I know nothing about medicine at all. I cannot read a prescription, and I don't want to. I make no claim to be legally recognised." The deputy judge held that by the Medical Act, 1858, Mr. Macnaghton was precluded from recovering his fees, and entered judgment for the defendant, with costs, adding that the plaintiff could appeal.

Assistant's Claim Succeeds.—In the Waterford Circuit Court, recently, Mr. George Mansfield, chemist's assistant, Kilmacthomas, claimed the sum of £52 7s. 6d. as balance of wages alleged to be due to him from Mr. P. J. Fox, Ph.C., Tramore, in whose branch at Kilmacthomas the plaintiff had been employed as "charge hand." Mr. Lennon, B.L., for the plaintiff, said that Mr. Mansfield entered the employment of the defendant in November 1921, at a salary of £12 a month. This arrangement continued up to July 1922, when there was a reduction of salary to £10 a month, and subsequently arrangements were alleged to be made reducing the amount to £8 a month, with 5 per cent. commission on sales, or in the alternative, 20 per cent. on sales. This arrangement the plaintiff contested. In 1924 the salary was increased to £9 a month for the remainder of the plaintiff's services. The difference in the salary since the reduction from £10 to £8 was the amount claimed. The defendant in reply to his counsel, Mr. Connolly, B.L., stated that in November 1921 he arranged to pay the plaintiff £12 a month, and continued that arrangement for six months, and the plaintiff was always paid by cheque. In July 1922 witness issued a cheque to the plaintiff for the sum of £8, and that was because he had told the plaintiff he would have to reduce his salary. The Judge: What arrangement did you come to about that? Witness: I agreed to pay him a flat rate of £8 per month as salary, and he could have any profits from the business, less 5 per cent., or, alternatively, he could have 20 per cent. commission on the business turnover. The Judge: Where did that talk take place? Witness: At Kilmacthomas. The plaintiff said to me that he would find it hard to live on less than the salary he was getting, and I replied to him that I must close the business except he agreed, and that if he was

dissatisfied, a month's notice on either side would terminate his employment. It was agreed between us that if he accepted the 20 per cent. arrangement his salary should not be less than £8 in any month. In September 1924, the witness added, the salary was increased to £9 a month, because he was doing better business in Tramore, and he wished to encourage the business in Kilmacthomas. There was no new arrangement. Witness admitted that there was a balance of £5 7s. 6d. due to the plaintiff, and one month's salary at £9. The judge said that it was very unfortunate that Mr. Fox never thought of putting on paper what the new arrangements with Mr. Mansfield were. There was no documentary evidence of the original agreement of £3 a week salary. Both sides, when the change took place after a certain date, disagreed as to what the change was, but Mr. Mansfield at all events put his position on paper. Mr. Mansfield kept an account for the balance due, which, he stated, was running on after the payments. His lordship was of opinion that there was no agreement to the reduction, and gave the plaintiff a decree for the amount claimed.

Unqualified Trader Fined.—In the Newport District Court, Limerick, on February 23, before Mr. J. M. Flood, B.L., District Justice, five summonses at the suit of the Pharmaceutical Society of Ireland against Mr. William Flannery, jun., Rear Cross, co. Tipperary, were heard. In one the defendant was charged with having kept open shop for retailing poisons contrary to Section 30 of the Pharmacy Act (Ireland), 1875. In a second summons he was charged with having sold arsenic contained in Cooper's Sheep Dipping Powder, the bottle, vessel, wrapper or cover in which it was contained not being labelled with the name and address of the seller, contrary to Section 2 of the Sale of Poisons (Ireland) Act, 1870. A third summons charged the defendant with a violation of the same section of the Act of 1870 by selling the powder to a person who was unknown to him and who had not been introduced to him. In a fourth summons he was charged with a further violation of Section 2 by having failed, before delivery of the powder, to make or cause to be made the requisite entry in the book prescribed. In the fifth summons the charge was a violation of Section 2 of the Act of 1870 by selling phosphorus in a free state, contained in a preparation known as Harley's Rodine Rat Poison, the bottle, vessel, wrapper or cover in which it was contained not being labelled with the name and address of the seller. Mr. William C. Meeke, solicitor to the Pharmaceutical Society, appeared for the prosecution, and Mr. P. E. O'Donnell, solicitor, for the defendant. Mr. Meeke explained that the defendant carried on the business of hotel proprietor and publican, and also dealt in hardware, drapery and grocery. No doubt if Mr. Flannery had applied for a licence under the Poisons and Pharmacy Act, 1903, it would have been granted. But, even so, he had broken every regulation that it was possible to break under that Statute, and, as a consequence, his licence would not have protected him. He had sold poisons, contrary to the regulations, in a shop in which he sold intoxicating drink; he had sold the poisons at the same counter and from the midst of grocery goods, also contrary to the regulations; further, his name and address were not on the packets, contrary both to the statute and to the regulations; and, again, the fact that he had infringed the provisions of the Act by selling the sheep dip to a person unknown to him had definitely deprived him of the protection which any such licence would have given him. The defendant, it was only fair to say, admitted that he was acting illegally. It had been often hurled at him, Mr. Meeke said, that the chemists had a monopoly. Of course, that was so; but the monopoly was an incident in the protection of the public, which was the aim of the statute. Mr. Meeke read the certificate of Mr. W. Thorp, F.I.C., who stated that he had examined the sample of Cooper's Sheep Dipping Powder received from the Society's inspector. The weight of the packet was 31 oz. gross. On analysis he found that the packet contained arsenic equivalent to 27.46 per cent. of arsenious acid. The packet contained sufficient arsenic to give a poisonous dose for 2,000 people. He regretted to say that the Society had no power to

prosecute the wholesaler; he wished they had. Mr. Meeke also referred to Mr. Thorp's analysis of the Rodine, which contained 9.1 grains of free phosphorus. Dr. Cecil Robinson, Dublin, asserted that a dose of $\frac{1}{2}$ gr. of free phosphorus was fatal for an adult, and would kill in four hours. Mr. O'Donnell said he agreed with everything that had been stated by Mr. Meeke. The defendant had acted in complete ignorance of the statute, and he had guaranteed to the Society that he would discontinue the sale of these goods, which he had bought from Messrs. Boyd, Limerick, and that he would pay the expenses incurred in bringing the prosecution. After some discussion, Mr. Meeke stated that he would withdraw two of the summonses in respect of the sale of the sheep dip. He suggested that a penalty of £5 be imposed on the first summons, with £1 costs, and would agree that the other summonses should be dealt with under the Probation of Offenders Act, the defendant to pay £1 costs in each case. The justice made an order accordingly.

Trade-marks Dispute.—In the Chancery Division of the High Court, London, on March 2, before Mr. Justice Clauson, Lacteosote, Ltd., 15 Great St. Andrew Street, W.C.2, brought an action against Mr. A. Alberman, 5 Bennett Street, W.1, seeking an injunction to restrain the alleged infringement by the defendant of the plaintiffs' registered trade-marks, Nos. 457,141 and 296,462, by offering a pharmaceutical preparation, not being plaintiffs' merchandise, in bottles, cartons or other containers having affixed or stamped a label bearing the name Sirop Famel and letters P.F. in monogram, in conjunction with a representation of a group of coins or medallions. The plaintiffs also asked for an injunction to restrain the defendant and his agents from offering for sale under the name of Sirop Famel any pharmaceutical preparations not being plaintiffs' merchandise. Mr. R. Moritz, K.C., and Mr. E. Jackson appeared for the plaintiffs; Sir Duncan Kerly, K.C., and Mr. Kenneth Swan were for the defendant.

CASE FOR THE PLAINTIFFS

Mr. Moritz said that Sirop Famel was a well-known preparation for the treatment of asthma and kindred ailments here and on the Continent, and M. Famel had made it in Paris. The 296,462 trade-mark in the class for medicinal preparations was registered in 1907 by a French citizen, Pierre Famel, and assigned, with the goodwill, in June 1924 to the plaintiff company; the other was registered by the plaintiffs themselves on April 27, 1926. M. Famel continued to manufacture in Paris for them. Their case was that the defendant had sold Sirop Famel which proceeded from the original manufacturer in France under labels which constituted an infringement of both marks. The defendant was fighting for an amendment of the Register. The facts did not appear to be in dispute. The preparation had been sold in England for twenty years, first under one mark and then under the second, which was merely the English version of the first. In England it had been sold successively by Wilcox, Jozeau & Co., and by the plaintiffs, the English vendors being the sole selling agents of the French manufacturers. Mr. Alberman seemed to buy drugs abroad and take advantage of the difference in exchange to sell in England, where he claimed the right to sell, though every bottle of Sirop Famel sold by him had been purchased from Famel's purchasers in France, and bore on it the statement that its export was expressly forbidden. He bought from a wholesale chemist in France; Famel would not sell to him. The French label said: "Resale of this bottle abroad is rigorously prohibited." The Judge: I now appreciate your reference to the exchange. Mr. Moritz: We sell in the same sort of carton with the words "exportation of this bottle is absolutely forbidden," and on the English bottle the composition of the medicine is stated. Since the agreement, M. Famel had sold no bottle for export to England or at all under the prohibition. The plaintiffs were incorporated in April 1925, and the agreement belonged to the following month. M. Famel assigned the trade-mark and the whole of his business, and Wilcox, Jozeau & Co., had ceased to exist separately. The plaintiffs had spent over £8,000 in advertising this

mark in three years. Mr. Moritz went on to say that the defence, in asking for rectification of the Register, apparently distinguished between a manufacturing and a selling goodwill and invoked the principle of joint ownership. The defendant said, as far as the French mark went, that there had been no transference of the manufacturing goodwill; only transference of a vending goodwill; and as far as the English mark went it was deceptive, having regard to the mark already on the Register, and wrongfully led people to think the plaintiffs were the manufacturers. The plaintiffs said they bought the trade-mark with the goodwill outright, and, if they wished, could make the stuff in England to-morrow.

CASE FOR THE DEFENDANT

Mr. Swan contended that it was perfectly permissible for the defendant, if he could procure this article abroad, to introduce it into this country; and in the sixteen years before 1907, while M. Famel was exporting everywhere, there were chemists and druggists in England who had other means of importing the syrup, and they exercised their right and obtained otherwise than through the agency of Messrs. Wilcox, Jozeau. The plaintiff firm was formed, among other things, "to import and sell" this production. Mr. Moritz: I shall say that a condition attached to a monopoly (like this prohibition to export) binds a third party. Mr. Alberman, in the witness-box, said he followed the practice of other importers in not looking for prohibitions on the goods he imported. He was a pharmacist, and imported and dealt in pharmaceutical goods. Mr. Reginald Robinson, pharmacist, carrying on business in the Haymarket, said that when the change was made a request was made to the trade to deal only in the English article. Some chemists held out—he thought he did as long as any—because he could not see that by selling a genuine article he was contravening any law. But having been threatened with legal action he gave the undertaking, and he took it that other chemists fell into line as he did. The undertaking once given, he loyally observed it. Sir Duncan Kerly submitted that the manufacturer in Paris wanted to give a sole selling right for England when he made the assignment, but the goodwill must be that of a manufacturer's business, and he did not assign that. The hearing was adjourned.

Bankruptcy Reports

Re Ernest William Kirk, assistant chemist, 2 Riddings Street, Derby.—The first meeting of creditors was held at Nottingham on February 24, when the gross liabilities were given as £289, of which £284 8s. was expected to rank. It was stated that the debtor patented a wireless coil, and in October 1924, with £50 capital in cash and materials, commenced business on his own account to work the patent. He sold the patent for £75 to a London firm. In September 1926 he became an assistant chemist with a manufacturing firm at a salary of £200 per annum. The case was left with the official receiver.

Deeds of Arrangement

Hayward, Horace David, chemist and druggist, Sutton Road, Erdington, and Aston Road North, Birmingham. Dated, February 14; filed, February 19; unsecured liabilities, £5,060; assets, less secured claims, £1,059.

Hope-Stone, Solomon, chemist and druggist, 34 King Street, Wallasey. Dated, February 10; filed, February 15; unsecured liabilities, £1,454; assets, less unsecured claims, £400. Among the creditors are:—Ayrton, Saunders & Co., Ltd., £136; Clay & Abraham, Ltd., £15; Evans Sons Lescher & Webb, Ltd., £73; Kodak, Ltd., £18; Parke, Davis & Co., £12; R. Sumner & Co., Ltd., £22; John Thompson (Wholesale Druggists, 1921), Ltd., £48.

McCurdy, Allan McIntosh, Ph.C., 14 Inn's Quay, Dublin. Dated, February 21; filed, February 23; secured or partly secured creditors, £650; unsecured liabilities, £700; estimated net assets, £260.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

GOLD SEAL PROPRIETARIES, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of chemists, apothecaries, dentists, druggists, drysalters, distillers, dispensers, soap and perfume manufacturers, etc. R.O.: 20-26 Pump Pail, Croydon.

ALEC WILSON (CHEMISTS), LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of chemists, druggists, dentists and opticians, drysalters, oil and colour men, etc. The directors are: A. Wilson, S. Cash, and E. Schofield. R.O.: 2 Imperial Buildings, Oxford Road, Manchester.

MASON'S (GELLI) PHARMACY, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a drug store now carried on by F. S. Mason, at 192 Gelli Road, Gelli, Rhondda, as "Mason's Drug Stores." The directors are: F. S. Mason, Mrs. Sarah E. Mason, J. R. Mason, I. Lewis and H. A. George. R.O.: 192 Gelli Road, Gelli, Ystrad, Rhondda.

A. J. MILLAR (CHEMISTS), LTD. (P.C.).—Capital £1,500. Objects: To carry on the business of wholesale and retail manufacturing and dispensing chemists, druggists and analysts, artists' colourmen, dealers in oils, paints, colours and brushes, dealers in surgical, electrical, photographic, wireless and other scientific apparatus, etc. The directors are: J. R. Allan, A. S. Allan and W. Allan. R.O.: 113 Burdett Road, London, E.3.

G. W. HOPE & Co., LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of analytical and consulting chemists and druggists, manufacturers of and dealers in chemical products, food chemicals, calcium acid phosphate and sodium acid pyro-phosphate and derivatives, egg products, malt and cod-liver oil, essences, colourings and preservatives, etc. Director: G. W. Hope. R.O.: 248 Belgrave Road, Birmingham.

TAYLORS (CASH CHEMISTS) TRUST, LTD.—Capital £1,000,000. Objects: To adopt an agreement dated February 19, 1927, between Prichard & Constance (Wholesale), Ltd., of the first part, P. E. Hill of the second part, and S. S. Evans (for this company) of the third part; to develop and turn to account the properties and assets comprised therein, and to carry on the business of company promoters, financiers, financial agents, concessionaires, underwriters, brokers, dealers in stock, shares, loans, annuities and other securities, chemists, druggists, dentists, opticians, and that of an investment and trust company. The directors are: P. E. Hill, Sir Arthur H. Marshall, K.B.E., J. L. Moore, L. Nicholas, and Major-General Sir Robert Porter, K.C.B., C.M.G. R.O.: Bush House, Aldwych, London, W.C.2.

UNITED DRUG CO.—The United Drug Company of America, which controls the Boots Pure Drug Co., Ltd., and its associated undertakings in this country, has issued its annual report for 1926. The sales established a new "record" and passed the eighteen million sterling mark, while net profit advanced from £1,244,600 to £1,447,200, which is equal to \$13.02, against \$12.27 per common share, with a bigger capital ranking. A good part of the extra turnover (says the "Financial Times") was due to the opening of further retail stores, of which the net addition was more than a hundred. This also explains why the fresh business was relatively dearer than the old, a disproportion which is bound to disappear as the new shops get into full operation and earn more completely their allocation of overhead expenses. The dividend on the common stock, despite the larger amount outstanding, has been increased from 6½ to 7½ per cent. The extra capital has been subscribed by the banks, to which an option to take it was given in 1924, when an adjustment of finances was in progress. At that time both the preferred and common stock were below par, whereas now the common is quoted at \$165 and last year the range was between \$134 and \$174, compared with \$110½ and \$162½ in 1925.

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 31, 1926	Jan. 31, 1927	Feb. 28, 1927
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	20 6	20 6	20 6
Amalg. Dental Co., 8% Prefd. Ord.	18 3	17 3	18 0
Deferred 5s.	4 6	4 3	4 6
Apollinaris and Johannis, Ord. £1 ..	10 3	9 0	9 6
Ayrton, Saunders & Co., 7½% Pref.	13 0	13 0	13 0
Beecham Estates & Pills, 8% Cum.			
Prf. ..	21 0	21 0	21 0
Benger's Food, Ord. ..	35 0	35 0	35 0
Boake (A.), Roberts & Co., 5% Pref.			
£10 ..	£6½	£6½	£6½
Boots Pure Drug, Ord. ..	124 3	138 9	136 3
Boots Pure Drug, 7% "A" Prefd. Ord.	24 0	24 0	24 0
Boots Cash Chemists (Southern), 6% "A" Pref.	21 9	21 9	21 9
Borax Consol., Defd. Ord. ..	30 3	31 9	29 6
Bovril, 6% Pref. ..	20 9	21 0	21 3
Ord. ..	23 9	23 9	24 6
Defd. ..	42 0	43 0	43 0
British Celanese, Ord. ..	5 9	6 3	6 9
7½% Pref. ..	9 3	10 3	11 0
British Cyanides, Ord. ..	2 3	2 6	2 3
British Drug Houses, The, Ord. ..	20 9	21 0	20 0
British Glues and Chemicals, Ord. ..	3 0	3 0	3 0
8% Pref. ..	11 3	11 3	10 6
British Oil and Cake Mills, Ord. ..	25 9	25 6	25 6
British Oxygen, Ord. ..	27 0	28 9	26 3
British Photographic Industries, 6% Cum. Pref. ..	10 0	12 6	14 6
Bush (W. J.) & Co., 5% Pref. £5 ..	63 9	65 0	62 6
Cadbury Bros., 6% Pref. ..	23 6	23 9	23 6
Callard, Stewart & Watt, Ord. ..	42 6	41 3	41 3
5½% Pref. ..	18 9	18 6	18 6
Crosfield (Joseph) & Sons, 6½% Pref.	18 6	19 0	19 0
Dubarry Perfumery, Ord. 1s. ..	7 9	10 0	10 0
7½% Pref. ..	19 0	19 9	19 3
Eastman Kodak Com. (no nom. value)	\$135	\$133	\$133
Evans Sons Lescher & Webb, Ord.			
6s. 8d. shares	4 0	4 0	4 3
5% Pref.	4 6	4 9	4 9
Field (J. C. & J.), Ord. ..	11 0	12 0	12 6
7% Pref. ..	18 6	18 9	19 0
Gossage (William), 6½% Pref. ..	18 3	19 0	18 6
Grout & Co., Ord. ..	46 3	50 0	45 0
Heppells, 7% cum. partie. Pref. ..	19 0	19 9	18 6
Hodder (Henry) & Co. ..	46 0	46 0	55 0
Idris & Co., "A" Ord. ..	19 0	20 0	20 0
Ilford, Ltd., Ord. ..	28 9	32 6	28 9
6% Pref. ..	19 0	20 0	19 6
Imperial Chemical, 7% Pref. ..	22 9	23 4½	23 6
Ord. ..	21 6	22 0	22 0
Defd. 5s. ..	6 6	6 0	6 0
Intern. Sponge Importers, 6% Pref.	10 0	10 0	10 0
Kent (G. B.) & Sons, 5½% Pref. ..	12 6	12 6	12 6
Knight (John), 25% Prefd. Ord. ..	60 0	57 6	58 9
Laporte (B.) & Co., Ltd., Ord. ..	20 0	20 0	20 0
Lever Bros., Ltd., 7% Pref. ..	19 1½	19 0	18 9
8% Pref. ..	18 9	18 6	18 3
20% Prefd. Ord. 5s. ..	10 0	10 0	9 9
Liebig's Ext. of Meat, Ord. £5 ..	£16½	£17	£15½
Mellin's Food, 6% Pref. ..	12 0	13 0	12 6
Mond Nickel Co., Ord. ..	38 6	38 9	38 9
7% Cum. Pref. ..	24 9	25 0	25 0
Nathan (Joseph) & Co., 7% Pref. ..	15 6	15 6	15 0
8% Prefd. Ord. ..	8 0	7 6	7 9
National Drug and Chem. Co. of Canada, 6½% Pref. ..	6 0	4 6	4 6
New Transvaal Chemical Co., 6% Pref.	17 9	18 0	17 9
8% Pref. ..	21 0	21 6	21 3
Salt Union, Ord. ..	32 0	31 0	31 0
Pref. ..	30 0	30 0	31 3
"Sanitas," The, Co., 9% Pref. ..	24 3	23 9	24 6
Schweppes, Ltd., Ord. ..	22 6	22 6	22 6
Defd. ..	39 6	41 0	44 0
Smith (Stephen) & Co., 6% Pref. ..	30 0	31 6	31 9
Southall Bros. & Barclay, Ord. ..	58 6	60 6	62 6
5% Pref. ..	18 0	18 3	18 3
Spratt's Patent, Ord. ..	45 0	44 0	45 0
Stevenson & Howell, 6½% Cum. Pref.	20 0	20 0	20 0
United Glass Bottle Man., 6% Mt.			
Deb. Stk., £100 ..	£92½	£92	£92½
Venesta, Ltd., Ord. ..	17 0	17 6	17 6
7% Pref. ..	18 0	17 6	17 6
Veno Drug Co., 8% Pref. ..	18 3	17 9	17 9
Virol, Ltd., Ord. ..	90 0	90 0	92 6
7% Pref. ..	22 0	21 9	22 0
White (A. J.), Ltd., Ord. 10s. ..	9 6	9 9	10 0
Wright, Layman & Umney, 6% Pref.	18 9	18 9	18 9

Invert Sugar Syrups

By W. A. Whatmough, B.Sc., F.I.C.,
Pharmaceutical Chemist

THE advantages of invert sugar syrup, or so-called honey sugar, are not nearly so widely known as they deserve. Nevertheless, its properties are sufficiently important to warrant attention on the part of pharmacopœial authorities as an alternative or supplanter of "Syrupus, B.P.," better known under the older name of "simple syrup." Cane sugar syrups suffer from the dual disadvantages of crystallising in cold weather and being liable to fermentation in summer. Indeed, their safety margin against yeast or mould-growth is so small that absorption of moisture is sufficient to set this going, often with disastrous results from bursting of bottles. Hence the practice that has grown up of using glycerin in proprietary syrups and cough syrups, despite its somewhat pronounced taste and higher price. The steadily increasing cost of glycerin as a substitute for sugar lends yet more interest to liquid (high gravity) invert sugar preparations, which during the Great War of 1914-18 gained prominence as a glycerin substitute. The fact that invert sugar syrup has not permanently displaced glycerin in flavouring syrups, cough syrups and like medicinal confections can only be due to ignorance of its properties and price. Invert sugar syrup for pharmaceutical purposes is more viscous than ordinary syrup, having a higher specific gravity (1.4 compared with 1.33), owing to the fact that it contains 80 per cent. of sugars instead of 66.6 per cent. in B.P. syrup. The taste of invert sugar syrup is sweeter and less cloying than a pure sucrose syrup, enhancing delicate flavours like orange and tolu. Freedom from disfiguring caking on the bottle neck and crystallisation are properties of prime importance in imparting true pharmaceutical elegance to galenicals and medicines in which invert sugar syrup is the basic medium. It has most of the advantages of mel depuratum without the variation in colour, flavour and crystallising capacity of clarified honey. The highest grade of invert sugar syrup for pharmaceutical use is made by inverting cane sugar with invertase (i.e., without contact with acids, as traces of chemical salts greatly impair the delicacy of sweetness).

An invert sugar syrup for pharmaceutical use intentionally contains sucrose as well as dextrose and lævulose, the reason therefor being that there is a critical admixture of these three sugars which has the least tendency to crystallise. This permits evaporation to a high-gravity syrup which has a big margin of safety against fermentation, withstanding dilution with one quarter of its volume of water before reaching the danger zone. In making up formulas this is an invaluable asset, as the use of liquid extracts and strong liquores pro syrupo does not bring in the fear of fermentation as with ordinary syrup, unless alcohol or glycerin are added or crystallisation troubles incurred.

Pharmaceutical practice with invert sugar syrups calls for attention to certain important factors, if the art of compounding therewith is to be maintained *secundum artem*. In the first place, strong sugar syrups are usually supersaturated and hence will crystallise if seeded with a crystal of sucrose or dextrose. Consequently it is advisable to buy clear pharmaceutical invert sugar syrup ready made, because the maker automatically obviates this source of trouble in preparing and packing it. Secondly, if other saccharine products are added these should be completely dissolved before the invert sugar syrup is added, or, alternatively, the finished product must be warmed sufficiently to remove all traces of undissolved sugar. Furthermore, it is preferable to use nearly neutral in preference to acid galenicals, because slow inversion may take place in acid preparations, and this, by upsetting the sugar balance, induces slow crystal formation. Thus squill tincture or liquid extract of squill is far more preferable than acet. scillæ, and should be substituted for the latter, if at all possible, in the formula for a cough syrup. A change of invert sugar syrup for glycerin, or even ordinary syrup, generally means an alteration in the flavour of a preparation, and the modification often offers an opportunity to improve both flavour and appearance. Invert sugar syrup preparations have a pleasing consistency, and retain their "pourability" at low temperatures. The pharmacist may be tempted to "thin" these with glycerin or the new

ethylene glycol, but both these detract from the pleasant sweetness and distinctive characteristics of invert sugar syrups and add materially to cost. The use of concentrated liquors simplifies the extemporaneous preparation of invert sugar equivalents of B.P. or other preparations. Syr. violæ, in particular, takes on a new note of stability and attractiveness, and invert sugar syrup would stop the deposition of sugar in syrupy carminatives, such as syr. anisi, syrup papaveris, for which there are no official standards. The use of invert sugar syrups also enables the stock supply to be kept in a clear and presentable condition without the use of loose-fitting stoppers for containers of syrup. The popular demand for syrupy medicaments is surprisingly steady and persistent, considering their detractors, and the more attractive-looking invert sugar syrups should greatly extend domestic demands.

The fact that the reconstruction of a formula entails a change in flavour permits the use of the term "improved" in its description, and enables further economies to be effected. Thus ext. scillæ liq. will replace tr. scillæ or oxymel scillæ, and ext. ipecac. liq. should be used for vin. ipecac. Chloroform dissolved in sufficient isopropyl-alcohol to distribute it is an efficient and cheap substitute for sp. chloroformi, whilst essential oil of lemon or orange (preferably terpeneless) should be first diluted with this solvent. When an acidulated preparation is indicated, as is usual in children's cough syrups, in clear lemon and honey syrup, the use of citric acid in place of acetic acid is advisable, both on account of fruity flavour and the greatly diminished inverting action on the sucrose in pharmaceutical invert sugar syrup. Concentrated liquors (for tinctures, syrups and waters) provide a ready-made means of endless combinations and replacements in providing equivalents to existing formulas, with improvement in flavour, appearance and keeping properties, and an opportunity that is seldom afforded of lessening prime costs. The following two examples of "Pharmaceutical Formulas" exemplify how to convert these into "improved" cough syrups:—

COUGH LINCTUS

P.F. 26

C. & D. *Diary*, 1927 (p. 273)

Liq. morph. hydrochlor.	5ss.
Syr. tolu	5ij.
Syr. scillæ	5iv.
Syr. limonis	ad 5xij.

COUGH LINCTUS

Improved Formula

Liq. morph. hydrochlor.	...	Oj.
Liq. tolu pro syr.	(1 to 7)...	Oss.
Ext. scillæ liq.	...	...
B.P.C.	...	5ix.
Tr. limonis conc.	(1 to 3)...	5iv. 5iij.
Invert sugar syrup	ad	5iij.

LIGHTNING LUNG TONIC

P.F. 56

C. & D. *Diary*, 1926 (p. 273)

Vin. ipecac.	...	5iiss.
Tr. chlorof. et morph.	...	...
B.P. '85	...	3%
Tr. capsici	...	5iij.
Oxymel scillæ	...	5x.
Syr. pruni virg.	...	5viiss.
Syr. rhœados	...	5v.
Glycerini	...	ad 5xxx.

LIGHTNING LUNG TONIC

Improved Formula

Ext. ipecac. liq.	...	5ij.
Ext. scillæ liq.	...	5xj.
Tr. capsici	...	5vj.
Tr. chlorof. et morph.	B.P. '85	5xivss.
Liq. pruni virg.	pro syr. (1 to 7)	5xv.
Liq. rhœados pro syr. (1 to 7)	...	5x.
Invert sugar syrup	ad	5iij.

The improved formulas are made out for three-gallon lots, as this is a workable quantity and is readily divisible (by 3, 8 or 20) in one gallon, pints, or ounces, or easily converted into bigger batches. The conversion data are fairly obvious except in the case of squill and lemon syrups, where the finished weight of syrup requires dividing by 1.53 to give approximate volume. In the case of lemon syrup the millilitres of lemon juice are near enough to grams (actually 500 c.c. is ordinarily 505 grams).

TARIFF CHANGES IN PERU.—A presidential decree has been issued in Peru introducing a special surtax on a number of goods. This surtax takes the form of a fixed percentage of the rate of duty stipulated in the customs tariff, and in the case of toilet soaps, perfumes, Bay rum, hair dyes, cosmetics, toilet articles, and pills amounts to 100 per cent., and for mineral waters, natural and artificial, to 50 per cent. of the tariff rate.

New Solvents and their Specific Uses

IX. Esters (continued)

A MIXTURE of anhydrous ethyl alcohol and anhydrous ethyl acetate is the closest approach to the ideal solvent for resins *qua* resins, but other considerations of miscibility with nitrocellulose solutions and evaporation characteristics complicate the problem of making a lacquer that looks like an oil varnish and yields a film that is even more resistant to weather conditions. In general the soft resins are more soluble and give thinner solutions than hard resins, while natural wax (as may be present in shellac) is not dissolved. Hard Manila, Congo, Benguela, Angola, Madagascar, Zanzibar and similar hard fossilised gum resins are only partly soluble in alcohols or alcohol-ester mixtures, and the ester must be present in small amount in the latter. Freedom from acidity is an important point in esters, in order to avoid hydrolysis and deterioration of lacquers during storage. The individual characteristics and uses of commercial esters will be dealt with in order of decreasing volatility.

Methyl Acetate (b.p. 56°-57° C., s.g. 0.941) at present cannot compete with ethyl acetate in price. In addition, it suffers from the dual disadvantages of having too high an evaporation rate as a lacquer solvent and possessing a disagreeable odour derived from empyreumatic products in wood alcohol. The advent of synthetic methanol will no doubt overcome the odour and cost drawbacks. Methyl acetate will probably, in the near future, become of importance as an essential constituent of solvent mixtures for cellulose acetate.

Ethyl Acetate, formerly known as acetic ether (b.p. 77° C., s.g. 0.903) is now obtainable in commerce of 99 per cent. purity, as well as the older grade containing about 85 per cent. of ethyl acetate; but this latter has the disadvantage of not being anhydrous. Ethyl acetate is ordinarily made from alcohol and acetic acid (or calcium acetate and sulphuric acid) in the presence of a dehydrating agent. In the United States the producers of alcohol are also large makers of ethyl acetate by fermentation processes only. Part of the alcohol is oxidised by *B. aceti*, and a method has been evolved whereby the alcohol and dilute acetic acid are continuously converted into ethyl acetate. In preparing anhydrous ethyl acetate the formation of a ternary (constant boiling point) mixture by ethyl acetate, ethyl alcohol and water is utilised not only to dehydrate the ester, but also to increase the rate of esterification (and consequently the yield). Freedom from obnoxious residual odours is claimed for fermentation ethyl acetate. Anhydrous ethyl acetate is a better solvent for nitrocellulose than ethyl alcohol, but the latter dissolves resins more freely. Ethyl acetate will dissolve colophony, ester gum and mastic; but up to 30 per cent. of anhydrous ethyl alcohol must be added to make elemi, damar and shellac soluble. Kauri, sandarac, pontianac and Manila are only partially soluble, while hard copals are insoluble in ethyl acetate. A blend of ethyl acetate and ethyl alcohol suitable for making lacquers is being marketed as "Ansol, M.L.," this being a means of giving uniform quality and saving cost of mixing and separate freights. "Ansol, P.R.," is a mixture of ethyl acetate and ethyl alcohol (both anhydrous), with a higher ester content than in the lacquer solvent, which is finding an extending use as a basis of paint- and varnish-removing compositions. Solutions of nitrocellulose in ethyl acetate or "Ansol" are also offered, containing 20, 30 or 40 oz. of nitrocellulose in one gallon of solution. The present value of anhydrous ethyl acetate is \$1.05 per (American) gallon.

Ethyl Propionate (b.p. 98° to 102° C.) appeared in commerce as a post-war product to use up stocks of propionic acid which had accumulated from war-time fermentation of seaweed. It has no decided advantages over ethyl acetate, and normally would be too costly for use as a commercial solvent.

Ethyl Butyrate (b.p. 121° C.) has a pineapple odour which persists indefinitely and condemns its use as a lacquer solvent, though butyric acid is as above pro-

duced on fermenting seaweed. It is used in compound artificial pineapple flavouring essence.

Butyl Acetate (b.p. *circa* 125° C., s.g. 0.880-0.882) has become an important solvent in the lacquer industry having augmented or replaced amyl acetate in many instances owing to greater uniformity in composition and lower cost. It is made by esterification of butyl alcohol with acetic acid in the presence of sulphuric acid, the butyl alcohol being obtained by fermentation of maize. Commercial butyl acetate is sold as containing 85 to 88 per cent. of ester, with a boiling range of not more than 15 per cent. below 120° C. and at least 80 per cent. above at 125° C. Butyl alcohol (up to 15 per cent.) is a secondary component of commercial butyl acetate, its presence aiding solubility of resins and nitrocellulose and making their solutions less viscous. The cost of production has been cut down by large-scale production of butyl acetate admixed with butyl alcohol has become the most economical medium boiling solvent for lacquers especially as this solvent also withstands dilution with cheap hydrocarbons. Mixtures of butyl acetate and butyl alcohol impart desirable spreading properties, "good flow" to lacquers, enabling them to form uniform films. Excessively rapid evaporation of solvent gives a taut film, which easily chips off or wrinkles and develops pinholes, collectively designated as "poor flow." The simplest test for flow characteristics is to pour the lacquer solution down a glass plate held at an angle of 45°. With good flow the band will retain its original width in a regular stream, but descent in narrow falling ribbons will indicate a poorly flowing lacquer. The use of medium boilers is to retard rate of evaporation sufficiently to give good flow characteristics. Butyl and butyl acetate brush lacquers have been put on the market for home use, but their pronounced odour and lifting propensities on applying a second coat makes them much less satisfactory than glycol-ether lacquers. Elemi, gum, elemi, thus, kauri, and Manila are ester-soluble types of resins used in butyl acetate (spray) lacquers. The suffocating odour of this solvent renders exhaust fans necessary in painting cubicles. Butyl acetate in the United States is worth \$1.45 per (American) gallon. There is an enormous outlet for fermentation or synthetic butyl alcohol as an anti-knock dope for petrol whenever cost of production makes its use for this purpose an economical possibility.

Diethyl carbonate (b.p. 125° C.), also sold as "Diatol" is a synthetic ester with a pleasant odour. Its solvent power and volatility closely resemble that of butyl acetate, but the absence of choking fumes enables lacquers made with this solvent to be applied with special ventilation. The commercial product has an ester content of not less than 90 per cent., this amounting to distilling below 125° C. Diethyl carbonate solutions of nitrocellulose are more viscous than those prepared with butyl acetate, but this difference disappears on adding butyl alcohol equivalent to that present in commercial butyl acetate. Diethyl carbonate lacquers do not dilute well with hydrocarbon diluents unless ethyl lactate is included in the solvent mixture. Resin, thus, ester gum and mastic are completely soluble in diethyl carbonate but sandarac, Manila, and kauri require for solution the addition of from 5 to 10 per cent. of anhydrous ethyl alcohol. Lacquers made with this solvent do not tarnish brass. The price of this solvent is based on the market value of butyl acetate.

Amyl Acetate (b.p. *circa* 138° C.) consists mainly of the acetic ester of iso-amyl alcohol, the chief constituent of fusel oil. Amyl acetate dopes were the forerunners of modern nitrocellulose lacquers, and it is only a few years ago that amyl acetate was regarded as an essential ingredient in nitrocellulose lacquers for dipping, spraying, or brushing on metals and in the manufacture of patent leather and aeroplane dopes. The strong "pear" odour and limited supply of fusel oil has led to its virtual replacement by the cheaper butyl alcohol in large-scale production, but amyl acetate retains many minor uses as a solvent for cementing celluloid, coating buttons, and as an ingredient of acetone colloids. Amyl acetate of commerce contains from 85 to 88 per cent. of ester, but is liable to variation in distillation range.

Births

Notices for insertion in this column must be properly authenticated.

BOOT.—At Lenton House, Nottingham, on February 26, the wife of John Boot (Boots Pure Drug Co., Ltd.), of a daughter.

FARQUHAR.—At Viewforth, Strichen, on February 23, the wife of Douglas G. Farquhar, chemist and druggist, of a son.

GARRIE.—At 25 Warrender Park Road, Edinburgh, on February 15, the wife of W. Garrie, chemist and druggist (D. & W. Gibbs, Ltd.), of a daughter.

Marriages

DESBOROUGH—HARVEY.—At St. Peter's Church, Bourne-mouth, on February 19, Norton Desborough Desborough, chemist and druggist, son of Mr. N. D. Desborough, chemist and druggist (Desborough & Son, chemists, Brank-some), to Coralie Clare Harvey.

Deaths

BURLEIGH.—At Hastings, on February 8, Mr. William Milner Burleigh, chemist and druggist, aged seventy-six.

COX.—At Wimbledon, London, S.W., on February 15, Mr. Henry Stancer Cox, chemist and druggist, aged sixty-three.

FANTOM.—At 11 Moscow Road, Edgley Park, Stock-port, on February 22, Mr. William Charles Fantom, chemist and druggist, aged thirty-nine.

HARTLEY.—At 1 Darbyshire Street, Radcliffe, Man-chester, on February 23, Mr. Thomas Hartley, M.B., chemist and druggist, aged seventy. Prior to graduating in medicine at Durham University in 1891, Dr. Hartley was in business at Whitefield and at Elton, Bury. For a brief period he represented Elton Ward on the Bury Town Council. He leaves a widow.

JAMES.—At Ryde, on February 9, Mr. Fenwick James, chemist and druggist, aged fifty-four.

LEAHY.—Recently, Mr. James William Leahy, Ph.C., compounder at the Lisburn Street Dispensary, Dublin. Mr. Leahy, who passed the Licence examination in 1913, had a business at one time in Parnell Street, Dublin.

McMILLAN.—At Whalley, on February 26, Mr. James McMillan, retired chemist, aged eighty-seven. Mr. McMillan, who was a native of Kirkintilloch, established himself in early life as a chemist and druggist in Flint-shire. He then represented a firm of manufacturing chemists at Rainhill, Liverpool, of which he became sole-proprietor. After six years at Torquay he recommenced business as a manufacturing chemist in Liverpool, eventu-ally retiring to the Whalley district.

MARSHALL-HALL.—At his residence, 57A, Wimpole Street, London, W.1, on February 24, Sir Edward Marshall-Hall, K.C., aged sixty-eight. Sir Edward Marshall-Hall, who was the son of a medical practitioner, took a considerable interest in legislation affecting phar-macy at an early period in his distinguished career. He was present at the annual dinner of the Pharmaceutical Society in 1903, and was then described by the President as "a gentleman to whom we are very much indebted indeed for practically what is our Bill." Sir Edward was in Parliament from 1900 to 1906, and was one of the members who backed the Pharmacy Bills introduced into the House of Commons in 1904 and 1905. He received his knighthood in 1917.

PRATT.—At his residence, Palmerston, Croydon Road, Reigate, on February 17, Mr. Alfred James Pratt, retired chemist and druggist, aged sixty-three. Mr. Pratt, who was a native of Chichester, qualified in 1886, and shortly afterwards became a partner in the firm of Cruse & Co., Southsea. He eventually took over a pharmacy in High Street, Reigate, which he carried on until his retirement two years ago. Mr. Pratt was one of the founders of the Reigate, Redhill and District Phar-

macists' Association, served on the Surrey Pharmaceutical Committee, and was an original member of the Reigate and Redhill Chamber of Commerce.

SCALES.—At Redcourt, Adams Road, Cambridge, on February 28, Mr. Francis Shillington Scales, M.D., University lecturer in medical radiology and electrology. Dr. Scales, who graduated in medicine in 1909, was in charge of the x-ray and electrical department at Adden-brooke's Hospital, described in THE CHEMIST AND DRUG-GIST, II, 1910, p. 181; he was also the author of the text-books "Elementary Microscopy" and "Practical Microscopy," and had held office as curator, secretary and Vice-President of the Royal Microscopical Society.

SCHNEIDER.—On February 23, after a short illness, Mr. Theodor Schneider, Sunnysdene, West Hill, Syden-ham, and late of 4 Lloyd's Avenue, E.C., aged eighty-four. Mr. Schneider was the founder of the firm of Theo. Schneider & Vogel, and was well known in Mincing Lane circles during the last fifty years.

SKINNER.—At the Royal Northern Hospital, Holloway Road, London, N., on March 1, Louisa, the beloved wife of Mr. Herbert Skinner, Ph.C., Vice-President of the Pharmaceutical Society of Great Britain. Mrs. Skinner was well known in pharmaceutical circles, as she accompanied her husband at many public functions and at the British Pharmaceutical Conference. The last occasion was at the annual dinner of the Ealing chemists on February 2. Shortly after returning home a recrudescence occurred of the illness from which she had suffered for a year, and although every medical resource was available, it was obvious that the end was only a question of time. Mrs. Skinner, who will be much missed, had been a true helpmate, and of great assistance to her husband in the many public duties he performed on behalf of pharmacy. The sympathy of the drug trade will be extended to Mr. Skinner in his bereavement.

THOMPSON.—At Darlington, on February 16, Mr. Alfred Tatham Thompson, chemist and druggist, aged eighty-nine.

THORPE.—Recently, Mrs. Ann Mary Thorpe, for many years the proprietor of a pharmacy in Victoria Street, Alderney, aged seventy-six.

WEBSTER.—At 11 Cluny Square, Buckie, on February 26, Janet Carruthers, widow of the late Mr. John Webster, chemist and druggist, aged eighty-two.

Wills

MR. GENERAL HENRY MONK, retired chemical manu-facturer, 28 Sudeley Street, Brighton, who died on January 5, left estate of the gross value of £5,462 6s. 10d., with net personalty £3,398 7s.

MR. DAVID MACNAY, chemist and druggist, Bank Street, Kilmarnock, who died on September 24, left personal estate in Great Britain valued at £1,754 13s. 8d. Probate has been granted to Mrs. Mary Lyon Gibson MacNay and Thomas MacNay, brother of the deceased.

MR. ARTHUR HENRY FERRIDAY, chemist and druggist, Oakengates, who died on January 7, left estate of the gross value of £3,823 8s. 9d., with net personalty £2,571 12s. 10d. Probate has been granted to his widow Mabel Annie Ferriday, "Grenville," New Street, Oakengates, the sole executrix.

Personalities

MR. A. E. MARSHALL has resigned his position as works manager for Johnson & Johnson, Ltd., Slough.

SURGEON REAR-ADMIRAL A. GASKELL has been appointed Director-General of the Medical Department of the Navy.

MR. PERCY J. ASHFIELD, chemist and druggist, Rhyl, has been elected chairman of Rhyl's Prince Edward War Memorial Hospital.

At the sitting of the Royal Court of Jersey, on February 26, Mr. P. R. J. Roberts, chemist and druggist, was granted leave to carry on business.

Trade Notes

"PERBORIN."—Patent Phosphates and Merchandise, Ltd., 6 Fennel Street, Manchester, have reduced their price for "Perborin" (perborate of soda) by 7s. per cwt.

COTY SPECIALITIES.—Changes in prices of the Coty perfumes are referred to in the advertisement of Coty (England), Ltd., Coty House, 3 Stratford Place, London, W.1.

A. S. LLOYD'S EUXESIS.—The retail price of A. S. Lloyd's Euxesis is now protected under the scheme of the Proprietary Articles Trade Association at 1s. 3d. and 3s. per tube.

A COMPREHENSIVE LIST of all the chemicals, drugs and essential oils stocked by The Old Strand Chemical and Trading Co., Ltd., Audrey House, Ely Place, London, E.C.1, has recently been issued to the trade.

ALLEN & HANBURY, LTD., announce that the special bonus offer of one dozen 1s. 3d. tins made on all direct orders of one gross tins or the equivalent from retailers of the "Allenburys" glycerin and black currant pastilles, will be discontinued after March 31.

SULFARSENOL.—The sole agents for Great Britain and Ireland for Sulfarsenol are Modern Pharmacals, Ltd., 2 Calthorpe Street, London, W.C.1. A special booklet for the medical profession has been published, giving the information required for administration of the remedy.

ERASMIC SOAP OFFER.—The advertisement in this issue of the Erasmic Co., Ltd., Warrington, refers to a free offer to the public which is to be made in the Press at the end of this month in connection with Peerless and Elite Erasmic soaps. The propaganda is undertaken with a view of introducing the new Peerless Perfume.

JUNE PERFUMERY BONUS.—Most chemists will be interested in a bonus offer being made by Saville Perfumery, Ltd., Watford, and referred to elsewhere in this issue. For every standard parcel (containing powder, cream and shampoo powder) purchased, and a window display, perfume to the retail value of £1 17s. 6d. is given, together with a counter demonstration spray and display material. The profit on this offer, which closes on April 9, amounts to 100 per cent. on cost.

NONN is the name applied to nerve tablets made by Nonn, Ltd., 45 Gordon Square, London, W.C.1. The name is formed from the initials of the sentence, "Nature's Own Nerve Nourishment." Nonn is an organotherapeutic preparation in tablet form, employed as a nerve tonic. There are two varieties of Nonn, one kind for men and the other for women. The packages sell at 3s., the price being protected under the scheme of the Proprietary Articles Trade Association.

UNIVERSAL PRINTING PRESS.—Mr. Alfred Hauert, Vienna, called at the C. & D. office this week and gave us a demonstration of his process for printing on glass containers. He employs a printing press modified for the purpose, the system being founded on the transfer of a negative impression from a matrix to the glass ampoule, bottle, collapsible tube or other container. Ink in various colours is employed, and there is no difficulty in turning out perfect work after a little practice. The London agents for the machine are S. Radnic & Co., 3-4 Shoe Lane, London, E.C.2.

SELL'S TELEGRAPHIC ADDRESSES.—The forty-second issue of Sell's Registered Telegraphic Addresses has just been published by Mr. Alfred Sell, 8 & 9, Johnson's Court, Fleet Street, London, E.C.4. The directory: this year appears in new style, a broader page having been used, thereby enabling the work to be reduced to three inches in thickness instead of five. The improvements include a system of reference by which instantly the telegraphic addresses of any firm (there are over 100,000 of them) can be found, or vice versa, the firm owning any known telegraphic address. Each name has been given a code number, so that in the text of a telegram or cable it may be referred to by number, while the indexing system enables the user quickly to find the number of any firm represented by any known number.



THE CHEMIST AND DRUGGIST

RETAIL & DISPENSING PRICE LIST

based on definite costing principles

ISSUED QUARTERLY SIXTH YEAR OF PUBLICATION

THE drug index for February is 144.2, a reduction of 0.1 on the previous month. For surgical dressings the figure is 177.6, which is a fall of ten points. The following are the principal changes in prices (in addition to those given in the C. & D., February 5, p. 172) since the January issue of the C. & D. Retail Price List, and enable chemists to revise the List up to March 1:—

Cost			Selling Price			
			16 oz.	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.	s. d.
6	oz.	Acid. lacticum ..			1 8	—
45	lb.	Acid. lacticum dilutum..	3 0	1 0	0 4	—
24	½ doz.	Amp. emet., gr. 1 C	½ doz.	4 9	—	—
76	doz.	Amp. emet., gr. 1 C	doz.	8 6	—	—
30	½ doz.	Amp. emet. hyd., gr. ½ C	½ doz.	3 3	—	—
54	doz.	Amp. emet. hyd., gr. ½ C	doz.	6 0	—	—
26	lb.	Anthemidis flores exot.	3 3	0 11	0 3	—
34	lb.	Anthemidis florum exot. pulv. ..	—	1 4	—	—
192	lb.	Aqua aurantii flor. conc. 1-40 ..	—	6 10	1 9	0 3
90	lb.	Cantharidis Chin. pulv. B	11 3	3 3	0 11	—
28	oz.	Chlorbutol ..	—	—	4 1	—
108	oz.	Crocus Valent. ..	—	—	—	2 7
120	oz.	Crocus Valent. pulv. ..	—	—	—	2 10
60	dr.	Diamorphinæ hydrochl. B, F	—	—	—	8 9
54	oz.	Ext. ergotæ .. B	—	—	8 0	1 2
60	oz.	Ext. ergotæ pulvis B	—	—	8 9	1 3
133	lb.	Ext. ergotæ liquidum B	—	5 0	1 4	0 3
162	lb.	Ext. ergotæ ammon. liq. B	—	5 10	1 8	0 3
96	lb.	Ext. euphorbiæ pil. liquidum ..	—	3 6	1 0	—
24	lb.	Gallæ cærul. ..	3 0	0 11	0 3	—
33	lb.	Gallæ cærul. pulvis ..	4 3	1 3	0 4	—
33	lb.	Hyoscyami semina ..	—	1 3	0 4	—
66	lb.	Inf. cascariillæ conc. ..	—	2 5	0 9	—
51	lb.	Inf. rosæ acidum conc. ..	—	2 0	0 7	—
624	cwt.	Lini semina ..	7 lb.	4 9	14 lb.	8 9
12	oz.	Liq. ethyl nitritis ..	—	—	1 9	—
192	lb.	Ol. limonis ..	—	7 10	1 11	0 4
180	lb.	Ol. limonis (Messina) ..	—	6 6	1 9	0 3
182	lb.	Ol. menthæ Jap. (de-menth.) ..	—	6 6	1 9	0 3
504	lb.	Ol. menthæ pip. redest. ..	—	—	5 6	0 10
216	gal.	Ol. olivæ (cream) ..	3 6	1 1	—	—
192	gal.	Ol. olivæ (subline) ..	3 0	0 11	0 4	—
168	gal.	Ol. olivæ (fine) ..	2 9	0 9	—	—
84	lb.	Pil. rhei co. pulvis ..	—	3 0	0 11	—
8	oz.	Resorcinum ..	—	—	1 0	—
48	lb.	Sarsæ radix Jam. ..	6 0	1 9	0 7	—
60	lb.	Sarsæ radix Jam. incis. ..	7 6	2 2	0 8	0 2
84	lb.	Tr. asafetidæ ..	—	3 0	0 11	—
60	lb.	Tr. capsici ..	—	2 0	0 8	0 2
89	lb.	Tr. ergotæ .. B	—	3 2	0 11	—
180	lb.	Tr. ergotæ ætherea B	—	6 4	2 0	—
90	lb.	Tr. ergotæ ammoniata B	—	3 2	0 11	—
44	lb.	Tr. gentianæ co. ..	5 6	1 7	0 6	—
90	lb.	Tr. lavandulæ co. ..	—	3 0	0 10	—
24	oz.	Urea hydrochlor. ..	—	—	3 6	0 6

Observations and Reflections

By Xrayser III.

Like Mr. Hines,

and in common with many chemists who have contracted for the supply of medicines to insured persons, I am strongly opposed to the exercise of petty tyranny by the Ministry of Health, as illustrated by intimations that official formulas for galenicals are to be ignored and cheap substitutes for B.P. preparations dispensed in place of the latter. Not that I should regard the latest formula for chloroform water as the worst possible example that could be quoted, since it only differs from the official one in the replacement of distilled water by tap water. The product will not differ materially from aqua chloroformi, B.P., and it will be infinitely superior to dilutions of emulsio chloroformi, B.P.C. As regards the Ministry's substitute for aqua menth. pip., B.P., one is forced to admit that it corresponds closely with what some of us are in the habit of using regularly, in preference to the distilled article. But I do enter a most emphatic protest against the Ministry's instruction that camphor water shall be prepared by diluting the concentrated preparations (1.40). The B.P. aqua camphoræ may be unduly expensive, but it is wrong in principle to encourage the use of concentrations. Added to this, we are entitled to protest against being practically compelled to keep ready for use two forms of what is virtually the same preparation.

On the Main Point,

it seems to me that there ought to be an arrangement in accordance with which any official formula for a galenical might be replaced, after reasonable notice, by a less expensive formula, provided the Ministry of Health should be able to satisfy the Pharmacopœia authorities that the new formula yields a satisfactory product. Too much time must now elapse before a B.P. formula can be altered, and a change in this respect is both necessary and desirable. On the other hand, it does not appear reasonable that the Ministry of Health should be in a position to set up as an independent pharmacopœia authority, as it virtually does when it introduces modified formulas through the medium of the drug tariff. It may be questioned whether anything of this kind is permitted by the National Insurance Acts, and one would like to know if the Retail Pharmacists' Union has taken counsel's opinion on the subject.

Dispensing Charges

cannot always be the same, any more than can doctors' or lawyers' fees, or the additions to costs made in fixing retail prices by traders in such different districts as Bond Street and the Old Kent Road. For this reason I am never disposed to feel unduly sympathetic when customers complain about having been charged more for medicine specially dispensed for them, in one pharmacy than in another. Whatever agreement we may come to in the matter of fixing standard rates for the cost of drugs and chemicals used in dispensing, every one of us is entitled to decide for himself at what rate he values his own services. Even the plumber instanced by Mr. Thomas Wilson in his paper on "Dispensing Charges" (*C. & D.*, February 26, p. 262) will charge for time occupied in fitting a tap washer more in some districts than in others. Why, then, should not the dispenser of medicines charge more or less, according to circumstances, without being held up to obloquy?

The Council Election

in May next promises to be somewhat lively, if one may judge by the literature on the subject which is already being circulated. On one side of a printed circular which I have received there is an advertisement of an "Institute" connected with the optical industry, and on the other there appears an address by a prospective candidate for the Pharmaceutical Society's

Council. Among other things he advocates, as one of "five points of our charter," classification of councillors according to age, or seeming age. Thus, there are to be seven elderly, seven middle-aged, and seven young members of the future Council, and all are to receive salaries. Everything "appertaining to chemists, in all matters," is to be brought under the "jurisdiction" of the Council; but what about the claims of the Privy Council, the Home Office, the P.A.T.A., the R.P.U., and other interested bodies, including the "Institute" which is advertised on the same piece of paper? Then, again, "the science of optics," by which appears to be meant the fitting of spectacles, is to be made an integral part of pharmacy! I need not quote further.

The Employment

of *mus musculus* in medicine, in the manner referred to in the public prints this week, is a practice of very ancient origin. As to the ailment which its recent use was supposed to benefit I am not certain. Perhaps it was for some chest affection, in which case there is the authority of Pliny to fall back upon, for he says that mouse boiled with salt and oil is good for lung troubles. When the mouse is roasted, Dioscorides states, it may be given to children to diminish an excess of secretion from the salivary glands. Among the old medical authorities who included the mouse and its parts in their *materia medica*, in addition to those just mentioned, were Galen, Arnold of Villanova, Rhazes, Avicenna, and a number of their successors. The little creature itself was not an official simple in the first London Pharmacopœia, but many compounds, consisting of the *stercus merium*, together with other ingredients such as vinegar or tar, or the juice of cresses or onions or garlic, or with honey or pepper, found favour as remedies for alopecia. Every part of this animal at some time or other has been pressed into the service of the recognised practitioners of medicine, down to such recent times as the eighteenth century. On the whole it is not remarkable that the common people have lingering in their family traditions the possible usefulness of this prolific companion of the household.

It is but Rarely

that one meets with copies of the original circulars which were issued by the quacks of the eighteenth century. The other day I was fortunate enough to come into possession of one in its pristine condition, printed about 1775. It is headed by the English Royal Arms. The gentleman whose abilities it proclaims introduces himself thus: "Dr. Sedra, Physician and oculist from the Academies of Paris and Montpellier." He had many years' practice as well as "seven years in the Navy of their Britannic Majesties George II and III in the two last wars." In what capacity he served he does not say—perhaps wisely. "Dr. Sedra may be consulted every Day at his Apartments at the White Horse, in Fryergate, Preston." On the reverse of this sheet are certificates of cures which refer to cases spread over the whole country; and like many present-day testimonials there are in them indications that one and the same hand has played a part in the drafting. In avowing what his successes have been our not too modest practitioner uses the phrase "with the Blessing of God," which phrase is, with two exceptions, found in all his testimonials. "The Doctor's superior abilities in the healing Art" are set forth with such confidence, which, taken in conjunction with his statement that he proposes "to pass the winter in Preston," could scarcely fail to attract the sick and suffering. This is a specimen of his style which for directness of appeal it would be difficult to beat: "For the stone and gravel I have found out a remedy which will cure that dreadful disorder in a short time. I cure the epilepsy or falling sickness, the king's evil and white swelling. Even when the bone is damaged—Cancers—as well occult as apert—I happily cure without cutting. . . . I cure the ague in three days, tho' of ever so long standing, also deafness of many years' duration. I cure the venereal disease in all its stages. . . . The strictest secrecy and honour may be depended on. * * * Advice to the poor gratis."

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Editorial Articles

A Manufacturer's Dilemma

THE pharmacological assay of tr. scillæ, B.P., has provided a peculiar problem in regard to the sanctity of official standards. A sample of tincture of squills was submitted for assay to the Biological Department of the Pharmaceutical Society by a drug house noted for the quality of its drugs, which is in the habit of guaranteeing all galenicals contained in the British Pharmacopœia as conformable thereto. The following is a copy of the result of physiological testing:—

REPORT ON TINCTURE OF SQUILLS.—Batch No. 121

The tincture was diluted 40 times with 0.9 per cent. sodium chloride and injected at constant rate, approximately 1 c.c. per minute, into a series of three cats, artificially respired with a mixture of air and ether, the injection being made into the femoral vein of one side. The blood pressure was recorded from the carotid artery. The injection was continued until the sharp drop of the blood pressure to zero indicated that the squill had reached such a concentration in the heart muscle that the heart had stopped in systolic contracture. The amounts of diluted tincture reckoned in c.c. per kilogram of body weight of cat necessary to produce this effect, were, in three cats: (a) 13.85 c.c. per kgm.; (b) 15.71 c.c. per kgm.; (c) 10.25 c.c. per kgm. Average, 12.5 c.c. per kgm.

The standard used here is a composite tincture prepared by mixing equal parts of nine tinctures prepared in this laboratory from nine samples of squills. (This composite

tincture assayed in terms of scillarein, a crystalline glucoside of squill, contains 0.028 per cent. of this glucoside.) The figure obtained for the standard tincture, similarly diluted by the above method, is 16.94 e.c. per kgm. Consequently tincture 121 has a higher toxicity than the standard, the proportion being as 134 is to 100. This is, in my opinion, too strong, and I recommend that the bulk of your tincture be diluted so that three parts become four parts. If you do this, and send me a sample of the diluted bulk, I can then issue a certificate.—(Signed) J. H. BURN.

The manufacturer, on receipt of the report, wrote pointing out that in the execution of orders for manufactured preparations of the British Pharmacopœia it was their custom to affix a label with the wording "Guaranteed to be in conformity with the characters and tests of the British Pharmacopœia." It was also added that for some time past additional precautions had been taken to ensure that the physiological activity of certain preparations was not below standard. It was further pointed out that statutory obligations severely limit the lawful use of a diluted tincture (such as that for which a certificate was promised), and enlightenment was sought as to the attitude of the General Medical Council towards the standard of the Pharmaceutical Society. The answer to this inquiry, bearing the date of February 9, is as follows:—

In reply to your letter of February 8, I may say at once that you have raised a very difficult question. The General Medical Council has no knowledge whatever of, and gives no sanction to, the standard of the Pharmaceutical Society. In making the recommendation that your tincture of squill should be diluted in the proportion of three volumes to four, I recognise frankly that such a recommendation proposes a breach of the letter of the law. Any steps which are taken with regard to such a recommendation must be taken on your own responsibility, and if you shrink, as you may very properly wish to do, from infringing the letter of the law, I cannot help you in this matter. According to the test carried out here this tincture of squill is appreciably stronger than the general run of tinctures, to such an extent that it ought to be regarded as abnormal. I cannot, therefore, issue a certificate to the effect that it is a satisfactory tincture. You have, however, got my report on the tincture, and you are aware that at any rate the tincture is not below strength, and this may be enough for your purposes, as indicated in your letter. Unless the Society's certificate is restricted in such a way that it covers only tinctures of reasonably uniform potency it can have no real value.—(Signed) J. H. BURN.

P.S.—I may say that this is the only tincture of squill which I have examined in the past twelve months which has been outside the accepted limits. It is, however, almost twice as strong as the weakest tincture which I would be prepared to pass.—(Signed) J. H. B.

The deadlock is thus complete, since a carefully made tincture cannot be certified as "satisfactory" unless it is diluted, which operation makes it contravene B.P. tests. The *obiter dicta* of Dr. Burn on squill tincture might become of recognised validity during the next decade, but at present the only result is to impale the drug house upon the horns of a dilemma. Presumably carelessness in trimming and exposure of squill would provide an escape therefrom, since this drug would easily absorb the necessary amount of moisture, or reduce its toxic activity by oxidation. However, the purpose of physiological testing is not to put a premium on drug deterioration, nor can it impose impossible restrictions on manufacturing pharmaceutical chemists. Hence it is the duty of the Pharmaceutical Society either to secure legal sanction for its standards or, alternatively, to issue certificates in a form that enables wholesale houses to supply galenicals with a guarantee of B.P. quality. However desirous it may be to anticipate the progress of physiological standardisation, the present attitude of the Society's Biological Department can only result in new unofficial preparations unless the General Medical Council sanction the proposed dilution, a pharmacopœial precedent for which exists in assay of tr. scillæ in the Tenth Revision of the

United States Pharmacopœia. This immediately raises the relationship of physiological assay to therapeutic use, and squills in particular emphasises an illogical aspect of biological testing. Singularly opportune in this connection is a study by Mr. Erik Knaffe-Lenz of the methods of assaying in galenicals the content of glucosides with cardiac action. This review was published in the "Journal of Pharmacology and Experimental Therapeutics" for October last (p. 407), and was made on behalf of the Hygiene Committee of the League of Nations. Among the conclusions arrived at are:—

(1) It is not possible to assay the content of the various glucosides.

(2) Tests on warm-blooded animals compared with frogs suggest that the two methods are not testing the same thing.

(3) The fate of glucosides in the intestine may be different from that on injection.

Mr. Knaffe-Lenz also states that the value of biological methods can only be interpreted in the light of clinical studies. The fact that it has been found to be impossible to demonstrate clinically the difference between a "standard" preparation and one of twice this strength is a striking commentary on Dr. Burn's decision above. It is added that clinicians as contrasted with pharmacologists have shown not the slightest interest in the exact assay of digitalis, which makes it appear that its practical significance has been overrated. Such questioning of biological standardisation by its exponents encourages us to point out that the toxic action of cardiac glucosides is not necessarily representative of their therapeutic use. International agreement has been secured as to the advisability of assaying digitalis (and digitalis only) in comparison with known standards. It is also to be noted that Messrs. E. M. Brock, J. W. Trevan, and J. H. Burn read a paper on January 22 before the Physiological Society on "The Accuracy of the Assay of Strophanthus and Squill by Different Methods." It is recognised that the cat method reduces variation in assay to under 10 per cent., as compared with 30 per cent. with frogs, but there is an unproved assumption that the toxic action tested represents the activity of the drug. Though biological testing (as with salvarsan) is of undoubted utility in preventing toxic effects, an extension of the same principle to squill corresponds to testing toxicity and not therapeutic activity. Squill is used medicinally on account of its expectorant properties, this following upon its irritant action in the stomach in small doses, which causes reflex secretion of the bronchioles. Thus it is quite possible that the physiological testing of squill bears no connection with its medicinal use, which is another argument against the imposition of uncertain standards, however invaluable these may be in guiding research for future progress. The certification by the Pharmaceutical Society of the activity of galenicals can only be utilitarian if acceptable by medical and legal authorities. Manufacturers must inevitably forgo the "advantages" of physiological standardisation which compels them to contravene existing pharmacopœial requirements.

The Decline in Saffron

New crop Valencia saffron, which has been arriving freely for several weeks past, is now cheaper than it has been at any period during the last five years, superior quality being obtainable at 67s. 6d. down to 57s. 6d. for the lower grades. It may be recalled that throughout 1920 prices ranged from 70s. to 80s., and in 1921 (a memorable year of declining values) from 65s. to 70s. was quoted. However, a movement to higher levels commenced in 1922 at from 75s. and rising to 115s. In 1923, 120s. to 150s. was quoted, the peak being reached at about the latter figure. The following year saw cheaper rates ruling at

140s., the decline continuing in 1925 to 120s., and in 1926 reached 90s. In view of these high prices the present level, therefore, may be considered reasonable and likely to stimulate the demand which had depreciated since the values increased. It may be noted that the cultivation of saffron is almost entirely a peasant industry, the crop being mostly disposed of to "collectors." Thus, a few kilos of saffron, in recent years, has represented a considerable sum in pesetas, and it is this fact, assisted by favourable weather conditions, which was responsible for the large crop last autumn which, we understand, is larger than it has been for several years. There has probably been a fair carry-over from the previous crop. The exports of saffron from Spain indicate how the demand from abroad has declined. The following are the official returns for the years 1923, 1924, 1925:—

	Kilos	Value
1923	50,922	10,133,478 pesetas.
1924	42,092	8,376,308 pesetas.
1925	39,399	6,067,446 pesetas.

In regard to 1926, only the first six months' returns are available, but these also show a considerable decline compared with the corresponding six months of 1924 and 1925:—

	Kilos	Value
1924, January-June..	25,514	5,077,286 pesetas.
1925, January-June..	22,543	3,471,622 pesetas.
1926, January-June..	17,052	2,626,008 pesetas.

Despite the fact that there is no satisfactory substitute for saffron, it is evident that high prices have had a serious effect on the trade. While a decline in value is welcomed by importers, they are already finding it difficult to obtain further supplies from the growers at these cheaper rates, and point to the likelihood of the future acreage being again curtailed. Should this be so, a higher level may again be expected when the present crop is absorbed. There is only one crop a year, however, and it is unlikely that prices will show much advance before the autumn. But it should be noted that the continued improvement in the value of the peseta against sterling has had the effect of slightly hardening values temporarily. There is always the tendency in these days for consumers to hold off buying in the hope of a decline. So far as saffron is concerned, importers regard lower prices as unlikely, and have already contracted for fairly large supplies. The following table is of interest, showing the destinations, amount exported and value of saffron exported from Spain during 1925 and for January to June, 1926:—

Destination	1925		1926	
	January-December		January-June	
	Kilos	Pesetas	Kilos	Pesetas
Canary Islands ..	65	10,010	10	1,540
Centa	12	1,843	—	—
Melilla	16	2,464	—	—
Germany	100	15,400	—	—
Algeria	42	6,468	50	7,700
Argentina	4,255	655,270	3,752	577,808
Belgium	10	1,540	—	—
Cuba	5,877	905,058	3,507	540,078
United States ..	3,209	494,186	1,389	213,906
Philippine Islands ..	3	462	—	—
France	21,421	3,298,834	4,998	769,692
Gibraltar	968	149,072	1,083	166,782
Great Britain ..	1,099	169,246	1,037	159,698
Holland	160	24,640	89	13,706
Italy	55	8,470	—	—
Spanish Morocco ..	1,320	203,280	—	—
French Morocco ..	20	3,080	116	17,864
Mexico	123	18,942	157	24,178
Portugal	1	154	495	76,230
Turkey	25	3,850	—	—
Uruguay	618	95,172	265	40,810
Chile	—	—	32	4,928
Peru	—	—	72	11,088

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist & Druggist,' 42 Cannon Street, London, E.C.4."

QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopœia, or any of the commoner radicals not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, March 8, on which day the samples will be posted. Students' reports will be received up to Saturday, March 19. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the fifth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

Retail Pharmacists' Union

Executive Meeting

A MEETING of the Executive was held at 4-5 Queen Square, London, W.C.1, on February 21, Mr. A. E. Young in the chair. There were also present: Messrs. Clement, Clubb, Forster, French, Gilleghan, Hague, Hardy, Jackson, Keall, Marshall, Martin, Melhuish, Phillips, Rowsell, Scholes, Smalley, and Tranmer.

The constitution of the Parliamentary Fund Committee was discussed, and it was arranged that Mr. A. E. Young and Mr. H. J. Martin should be the representatives of the Retail Pharmacists' Union until the next election of Executive. It was arranged to hold a conference of representatives of the various branches in conjunction with the annual meeting on May 25.

The same Executive afterwards dealt with matters concerning the Chemists' Defence Association, Ltd.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (i.e. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Allium Preparations.—A process for the manufacture of a practically odourless preparation of allium, consisting in treating onions, or garlic corms, with charcoal to fix the active principles. (Chemical Works, formerly Sandoz. 235,883.)

Enzymatic Cleansing Materials.—Mixtures of enzymes derived from the same or different animal species and in which tryptic enzymes naturally preponderate are added to soaps, etc., after previous dehydration. (Dr. H. Fischer. 265,024.)

Photographic Emulsion.—A process for increasing the sensitiveness of photographic emulsions, consisting in adding salts which are soluble in water and the anions of which contain at least three atoms of sulphur, selenium, or tellurium, e.g., sodium trithionate, the sodium salt of trithio-di-glycollic acid, potassium selenotriethionate. (I. G. Farbenindustrie A.G. 255,846.)

Associations' Winter Session

Edinburgh.—The Edinburgh Chemists', Assistants' and Apprentices' Association met on February 23. Mr. Eric Knott, Ph.C. (President) in the chair. A *Note on Ichthyol* was read by Mr. W. Hetherington, Ph.C. Mr. Hetherington said he was led to give this note by having to dispense prescriptions ordering as the chief ingredient "natural" ichthyol. He explained that natural ichthyol is obtained from the crude oil distilled from localised shale deposits in Europe, and proceeded to explain its characteristics. Evaporated to dryness, five samples gave respectively 48.8, 62.5, 54, 75 and 65 per cent. of residue. The B.P.C. fixes as the proper percentage 50 per cent. of ammonium ichthyol, and this gives a product easily measured or weighed. By a complicated process there has been obtained a colourless, odourless or even pleasant-smelling ichthyol without loss of chemical activity. The probable chemical constitution of ichthyol and its various pharmaceutical preparations were then discussed. There were also artificial products, such as thiol, tumenol and petrosulphol. Mr. F. J. Jackson then read a paper on *Static Electricity: its Production and Properties*. The speaker referred to the importance of a knowledge of this subject to all pharmacists, since it formed the gateway to the knowledge of the ultimate constitution of matter. The everyday manifestations of static electricity were indicated, followed by examples of its production by friction, pressure, cleavage and heat. After a series of interesting experiments, Mr. Jackson concluded by describing modern ideas as to the constitution of matter and the relationships that probably exist between the ether, electrons, protons and ponderable matter.

London (N.).—The February meeting of the North London Pharmaceutical Association was given over to a lantern lecture by Mr. A. H. Jenkin on *Rambles in Switzerland*. An interesting evening was spent, and a vote of thanks was given, on the motion of the President (Mr. J. T. Walters).

Poisoning Statistics

THE tables prepared for the latest annual statistical review of the Registrar-General for England and Wales, covering the year 1925, are now available. The text of review had not been published at the time of going to press, but, as in previous years, the figures speak for themselves. The following table gives a comparison of the general statistics with those for the previous year:—

	1924		1925	
Population (estimated)	38,746,000		—	
Marriage-rate	15.3 per 1,000		15.2 per 1,000	
Birth-rate	18.8 per 1,000		18.3 per 1,000	
Deaths	473,235		472,841	
Death-rate (crude) ..	12.2 per 1,000		12.2 per 1,000	
Poison deaths .. (corrected figures)	Accident ..	97	Accident ..	153
	Suicide ..	404	Suicide ..	465
	Total ..	501	Total ..	618
Ratio of poison deaths to total deaths ..	1 in 945		1 in 765	

The increase in the total in each half of the account must be viewed not only side by side with the previous year, which had remarkably low figures, but in a general comparison with pre-war years. Omitting the years from 1915 onwards, we have to go back to 1900 for a lower suicide aggregate, and to 1892 for a lower total number. Corrosive poisons again account for about two-thirds of the suicides by poison; adding together the figures for ammonia, carbolic acid, hydrochloric acid, lysol and oxalic acid (and omitting the less-used corrosives), we obtain a total of 314 out of 465 suicides. In 1924 the respective figures were 261 and 404; and of the total increase, 61, these five substances are responsible for 53 cases, 42 of which are due to lysol. Adding together the suicide figures for lysol (153) and those for carbolic acid (43), we obtain a total of 196, which is within measurable distance of the "record" year for carbolic acid suicides, 1895, when they numbered 224. As is generally known, carbolic acid was not at that time a

scheduled poison, and lysol had not been introduced. Statistics for single poisons, however, need reading side by side with the corresponding details of poisons of similar physiological effect; thus, while the suicide figures for carbolic acid went down slowly after 1895, those for oxalic acid went up, until in the ten years 1907-16 they amounted to more than those for carbolic acid. We have deleted from the official list deaths attributed to coal gas, growing plants, insect stings and so forth. With the exception of the continued prominence of corrosive poisons as a means of suicide, the figures present no feature of immediate importance. The full table for three years is appended:—

Name of Poison	1923		1924		1925	
	Negligence and Accident	Suicide	Negligence and Accident	Suicide	Negligence and Accident	Suicide
A.B.C. liniment ..	—	—	3	—	1	2
Acetic acid	1	2	—	1	—	1
Acetic acid and potassium oxalate ..	—	—	—	—	—	1
Aconite and belladonna ..	—	—	2	—	—	1
Ammonia	9	10	6	17	8	16
Ammonia and carbolic disinfectant ..	—	—	—	—	—	1
Antimony chloride ..	—	—	—	—	—	1
Arsenic	1	4	—	6	3	3
Arsenic and strychnine ..	—	—	—	—	1	—
Aspirin	—	—	1	—	1	—
Aspirin and antipyrine ..	—	—	—	—	1	—
Barium carbonate ..	—	—	1	—	—	—
Belladonna (and atropine) ..	2	—	2	1	1	—
Bromidia	2	—	—	—	1	—
Camphor & camphd. oil ..	3	1	1	1	—	2
Carbolic acid	10	40	6	35	10	43
Chenopodium oil ..	—	—	—	—	—	—
Chloral	2	1	1	1	—	1
Chloral and a bromide ..	—	—	1	—	2	—
Chlorodyne	2	2	1	—	3	—
Chloroform	1	1	—	2	1	3
Chronic acid	—	—	—	—	—	1
Cleaswell	—	—	1	—	—	—
Coal tar & preps. ..	1	1	—	1	—	—
Creosote and preps. ..	2	1	1	1	2	2
Cresolene	—	—	2	2	2	—
Cresylic acid	—	2	—	—	—	—
Eserine	—	—	—	—	—	2
Eucalyptus oil	—	—	—	—	—	1
Formalin	—	1	—	—	1	—
Heroin	1	—	—	1	—	—
Hydrochloric acid ..	7	73	6	60	15	62
Hydrocyanic acid ..	1	23	—	23	4	15
Hyoscyne	—	—	—	—	1	—
Hyoscy. and coloc. pills ..	—	—	1	—	—	—
Iodine and preparations ..	—	—	—	3	1	2
Izal	—	1	1	3	—	5
Jeyes' fluid	—	3	1	1	—	3
Lead acetate	—	—	—	—	1	—
Lead poisoning	—	—	—	—	1	—
Liquor epispasticus ..	—	—	—	—	—	—
Lysol	5	86	7	111	8	153
"Mercurial poison" ..	—	1	3	—	2	—
Mercury cyanide	—	—	—	—	1	—
Mercuric chloride ..	3	6	—	8	1	6
Methyl alcohol	—	—	—	—	2	—
Methyl salicyl.	—	—	1	—	1	—
Mikozone	—	—	1	—	—	—
Morphine, atropine and heroin	—	—	—	—	—	1
Nicotine	1	1	—	4	1	3
Nitric acid	—	—	1	4	4	3
Opium, laudan. & morph. ..	12	9	14	5	9	5
Oxalic acid	3	43	1	38	—	40
Paraldehyde	—	—	1	—	3	—
Phosphorus	1	2	—	—	2	1
Potash, caustic	—	—	—	—	—	—
Potassium chromates ..	1	2	1	—	1	2
Potassium cyanide ..	1	40	1	27	5	31
Potassium oxalates ..	—	2	—	1	5	1
Potassium permanganate ..	1	—	1	—	1	—
Quinine	1	1	1	—	1	—
Sloan's liniment	—	—	1	—	—	—
Soda, caustic	4	—	—	—	2	—
Sodium carbolate	—	1	—	—	—	—
Sodium cyanide	—	1	—	—	—	—
Sodium nitrate	1	—	—	—	2	—
Strychnine (& nux vom.) ..	4	16	8	14	7	13
Sulphonol	—	—	—	—	2	—
Sulphuric acid	—	1	1	3	—	3
Toxol	—	—	—	—	—	1
Turpentine & mixtures ..	—	—	1	—	1	—
Veronal (& homologues) ..	5	3	6	2	16	9
Wintergreen oil	1	—	—	—	—	—
"Zinc"	—	—	1	—	—	—
Zinc chloride	—	—	2	1	—	—
Zinc sulphate	—	—	—	—	2	1
Kind not stated	11	23	9	23	12	23

Pharmaceutical Society of Great Britain Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on March 2, Mr. F. E. Bilson (President) in the chair. Apologies for absence were received from Mr. Parry and Mr. Hines.

DEATH

The PRESIDENT said he regretted to announce the death of Mrs. Skinner, wife of the Vice-President, which had taken place on the previous night. All the Vice-President's colleagues would have the greatest possible sympathy with Mr. Skinner in the terrible loss which he had suffered, for they knew of the deep feeling of affection which had existed between him and his wife. He (the President) could only express the hope that time would help to assuage Mr. Skinner's grief.

ELECTIONS AND RESTORATIONS

Fifty-three persons were elected members of the Society and one hundred and fourteen as student associates. There were a number of persons restored to the Society and also to the Register. The registrar reported that 347 persons had been registered as apprentices or students.

RECIPROCITY REGISTRATION

Mr. Harry Charles Hart, Ilford, registered as a chemist and druggist in New South Wales, having completed the necessary formalities, was admitted to the Register.

EDUCATION COMMITTEE

The report of the Education Committee stated that a number of schools had been approved for the Preliminary Scientific examination. The report was adopted.

BENEVOLENT FUND

The report of the Benevolent Fund Committee showed that five applications had been considered, and grants made ranging from £20 to £60. A summary covering the three months' work of the Committee from November last to January indicated that 31 applications had been dealt with, and 25 grants made, the total amount disbursed being £606. The following special contributions were announced:—Williams & Peters, £3 3s.; A. C. Roskrow, £10; G. S. Savage, £5 5s.; Wallacey Pharmacists' Association, £7; W. Coutts Evans, 15s. 3d.; Ealing and District Pharmacists' Association, £12 17s. 9d.; J. G. B. Noble, £1 10s.; R. C. Tween, £1 1s.; Guild of Public Pharmacists, £2 2s.; T. Coulson, £1 8s. 8d.; W. K. Somerton, £5; N. Devon Association of Pharmacists, £1. The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

The Committee reported that during the month four applications had been considered, and grants made of £26 in two cases, £40 in one, while it was recommended that £55 per annum be paid to the London Orphan School in respect of each of two children, now nine and eleven years old respectively, until they reach the age of fifteen. A summary of the Committee's operations during the three months ending January showed that nine grants had been made involving the payment of £402. The report was adopted.

LEAGUE OF EX-SERVICE PHARMACISTS

In a report of the work of the League of Ex-Service Pharmacists it was mentioned that the secretary of the League had appeared before the naval and military committee of the British Medical Association on January 25, and stated the aims and objects of the League with a view of securing the support of the Council of the Association. Captain Hill stressed the endeavours which the League was making to secure that all dispensing in the Army should be carried out by or under the direct supervision of pharmacists. After a few questions had been asked by members of the committee Captain Hill withdrew. He afterwards

received a letter from Dr. A. Cox stating that the Council of the British Medical Association, upon the recommendation of their naval and military committee, had passed the following resolution:—"That the Council of the British Medical Association is in favour of the efforts of the League of Ex-Service Pharmacists to secure that qualified pharmacists should be employed in the larger military hospitals." Through the good offices of Mr. Rowsell, Captain Hill was able to address a meeting of the Executive Council of the Federation of Medical and Allied Services on January 25. Following upon this, the Federation set up a special subcommittee to consider the proposals of the League. Major Peck and Captain Hill attended a meeting of this special subcommittee on February 23.

Mr. Peck said that for several months past the League had been in touch with Dr. Cox with a view of putting its aims before the British Medical Association, and the sequel was the resolution embodied in the report. He thought the Council would agree that a real advantage had been gained by obtaining such an expression of opinion, and it could not fail to have an effect upon the Director of Medical Services and the War Office generally, as well as assisting the efforts of the League to put the pharmaceutical service of the Forces on a sound footing. The report was adopted.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £6 12s. 11d., amounted to £10,007 16s. 1d., comprising the following items:—Subscriptions, £7,325 17s.; examination fees, £349 13s.; registration fees, £1,127 14s.; restoration fees, £4 4s.; certificates of qualification, £1 11s.; School of Pharmacy, £52; Pharmacological Laboratories, £18 9s.; penalties, £161 19s. 8d.; "Pharmaceutical Journal," advertisements, etc., £505 9s. 4d.; "Pharmaceutical Journal," student-associates' subscriptions, £81 7s. 6d.; "Pharmaceutical Pocket Book," £25 15s. 4d.; Pharmaceutical Press publications, £43 17s. 3d.; Registers, £21 12s. 2d.; "Year-Book," £9 5s.; B.P. Codex, 1923, £66 13s. 11d.; interest on investments, £105 5s.; sundries, 10s. Payments ordered at the last meeting amounted to £5,319 15s. 8d., and £4,650 had been transferred to deposit account, leaving a balance of £38 0s. 5d. The balances on the other accounts were:—Benevolent Fund (current account), £28 18s. 5d.; Benevolent Fund (donation account), £26 14s. 8d.; War Auxiliary Benevolent Fund, £2 11s. 6d.; Orphan Fund, £31 14s. 11d. The report recommended that accounts amounting to £4,573 18s. 1d. be paid, and that the action of the secretary in making payments amounting to £712 10s. 6d. be approved. The report was adopted.

RANSOM RESEARCH SCHOLARSHIP

At a meeting of the Joint School and the Establishment Committee the Dean reported that the Ransom research scholarship will fall vacant at the end of August. It was recommended that the Ransom scholarship be combined with the curatorship of the Society's museum, that the income from the scholarship fund be increased to £200 from the general fund, and that applications be invited by advertisements for the joint post. The report was adopted.

HARRISON MEMORIAL LECTURE

The committee appointed under the Harrison memorial scheme reported that they had asked Mr. E. S. Peck to deliver a Harrison memorial lecture, and he had agreed to do so. The Committee recalled the fact that Mr. F. H. Carr delivered an address in memory of Colonel Harrison in July 1919, and they felt that under the new arrangements for perpetuating Colonel Harrison's memory it would be appropriate if this address could receive some recognition. They accordingly recommended that a replica of the Harrison memorial be presented by the Council to Mr. F. H. Carr. The report was adopted.

BRITISH PHARMACEUTICAL CONFERENCE

The Organisation Committee reported that they had considered some subjects which would be suitable for

discussion at the Brighton Conference, and recommended that the two following be selected:—

(1) The training of pharmacists, with particular reference to their future position in the public health service of the country, to be opened by Dr. J. H. Burn, director of the Pharmacological Laboratories of the Society.

(2) The Pharmacy Acts, their consolidation and administration, by Mr. H. N. Linstead, secretary and registrar of the Society. The report was adopted.

SCIENCE COMMITTEE

This Committee reported that they had considered a letter on the acidity of *vinum colchici* from the Retail Pharmacists' Union, and a series of experiments has been instituted in order to ascertain to what extent acidity increases with the age of this preparation. The following shows the result of a "Census of Pharmaceutical Research":—

Copies of questionnaire sent out	...	...	...	845
Returned with no information	...	...	...	185
Returned with information from non-research workers suggesting subjects for inquiry	...	...	...	60
Returned with information from research workers indicating to some extent the problems upon which work is being done	...	...	...	77
Total number of forms returned	...	...	...	322

The census was made with the object of ascertaining the names of those likely to be able to give the most reliable information on pharmaceutical substances and preparations. In addition, a considerable amount of useful information has been obtained on a number of subjects upon which research is being conducted, and also upon subjects which are suitable for investigation. The report was adopted.

This was all the public business.

Evening Meeting at Edinburgh

The fourth evening scientific meeting of the North British Branch was held at 36 York Place, Edinburgh, on February 16, Mr. W. G. McNab (chairman) presiding. Dr. Henry Dryerre, of the Department of Physiology, Edinburgh University, gave an address entitled

A Pharmacist's Survey of Modern Food Chemistry

[ABSTRACT]

Dr. Dryerre discussed body metabolism, raising the question: How could one lay down rules founded on scientific observation as to how much food should be supplied to the body? It could be done, he showed, by finding the amount of energy released by the body under varying conditions of rest and work. He then went on to explain different methods of calorimetry, illustrating by lantern slides the various apparatus. He showed also how the results are obtained, and in discussing the construction of diets stated that the average number of calories for most persons is about 3,500 to 4,000. He illustrated by means of a table how proteins which repair the tissues are broken down by the body, how carbohydrates were taken to produce energy, and incidentally help to consume the fats. Lantern slides were displayed, giving the percentage amount of the proximate principles. For those in charge of institutions where varying and well-balanced diets had to be given, an ingenious contrivance had been evolved by Irving Fisher, Yale University. Slides were shown illustrating the principle. Calculations were avoided by placing loaded pins representing the food values on a piece of cardboard. The centre of gravity was found and the results read at a glance. A well-balanced diet should have about 5 per cent. of proteins of animal origin and about 5 per cent. from vegetable sources. The proteins are the most expensive articles of diet. Of animal origin those from meat and eggs are the dearest, and those from milk and cheese the cheapest. Oatmeal is the cheapest source of vegetable proteins. For the adult, butter was no better than margarine. For children the question of vitamins came in here, and butter was undoubtedly better. In discussing efficient diets there had to be kept in mind the psychological as well as the chemical aspect. A good appetite and the relish of a

meal to come had far-reaching consequences on the ultimate benefit. The taking of soups as a preliminary to a sumptuous repast was good physiologically, because this stimulated the gastric glands to greater activity. In closing, he said that no doubt a great deal of what he had laid before them was of an academic nature, not just of that practical application which they had perhaps expected when they came there that night, but he hoped that if he had not told them anything of practical value, that at least he had told them something that had proved interesting.

Branch Meetings

Bradford.—A meeting of the Bradford Branch was held on February 16, the chairman (Mr. W. J. Cooper) presiding. Mr. W. J. Beardsley (member of Council) made a strong appeal on behalf of the Parliamentary Fund for £10,000, which he said was to be subscribed not only from the retail, but from all sections of the trade. Doctors had from 40 to 50 representatives in Parliament. The law had a whole "battalion"—far too many, in fact. When one realised that the chemical industry ranked sixth in the industries of the country, and yet it had no representation in Parliament except by Sir Alfred Mond, who was concerned in heavy chemicals, it was obvious that the need of pharmacy, both wholesale and retail, was very great, and, in view of all the tendencies of legislation in relation to medicines, was very serious. (Hear, hear.) Mr. Beardsley said he was convinced that, had there been a pharmacist in Parliament, the Dangerous Drugs Regulations would not have been what they were to-day; indeed, there might not have been any such regulations at all. No craft was more harassed by regulations and restrictions than pharmacy to-day, but, as a wholesaler himself, he would like to say that the retail pharmacists, with all their grievances, hardly knew the meaning of restriction by comparison with the position of the wholesale section of the craft. The retail section could rest assured that, unless pharmacy secured some effective representation in Parliament, the trend of legislation would be more and more in the direction of restriction and irksome control. The regulation of pharmacists was very futile and absurd, but it was persistent. Surely pharmacists who were qualified by examination to handle strychnine were fully qualified to handle morphine? Mr. Beardsley said he was quite aware that it had been said the Society might engage professional politicians to watch the interests of pharmacy in Parliament, but pharmacy was a profession unto itself, and no man could properly watch for matters detrimental to pharmacy except a pharmacist. Pharmacy could not afford to be left dependent on the services of men who could do nothing before going over to Bloomsbury Square to ask for instructions. By the time he got back with his instructions the need on the crisis might have been passed. If each pharmacist in the Society contributed from two to three guineas the need would be more than met. Yorkshire pharmacists, contended Mr. Beardsley, could afford, by their numbers, to send a Member of Parliament of their own. (Applause.) At the close of the lecture an interesting discussion followed, and forms were handed out, a number of subscriptions being promised.

Chesterfield.—The annual meeting and dinner of the Chesterfield and Mansfield Branch was held on February 16, the chairman (Mr. F. I. Houston) presiding. There was a good attendance. The following officers for 1927 were elected:—*Chairman*, Mr. A. H. Bell (Mansfield); *Vice-Chairman*, Mr. G. D. Dinwood (Chesterfield); *Treasurer*, Mr. A. R. Jesson (Mansfield Woodhouse); *Secretary*, Mr. W. O. Pegg (Mansfield). After the meeting an address was given by Mr. T. Hardy, J.P., Maryport (member of Council). Mr. Hardy dealt with the trend of recent and future legislation in pharmaceutical matters and urged the need for pharmaceutical representation in Parliament.

CEYLON PAPAIN.—The papain industry is to be revived in Ceylon if markets can be guaranteed. Production elsewhere and bad Ceylonese business methods spoilt past trade.

Festivities

Ladies' Evening at Manchester

THE second ladies' evening this season of the Manchester Pharmaceutical Masonic Association was held on February 16 at the Grand Hotel, Manchester, when about fifty guests were received by the Chairman (Bro. T. Leigh Bennett) and Mrs. Bennett. At the dinner the toast of "The Ladies" was proposed by Bro. A. Newton, and "The Chairman" by Wor. Bro. H. Thompson. Mrs. Bennett replied for the ladies in a charming speech, and the Chairman also briefly replied. A whist drive followed, the winners being:—*Ladies*: Mrs. Woodhead, Mrs. H. Bridgford, Mrs. Bratherton, Miss Livesley. The only gentleman's prize was won by Bro. A. Newton. A dance concluded a very enjoyable evening.

Dinner at Hastings

THE Hastings and St. Leonards Chemists' Association held a dinner on February 25 at the Queen's Hotel, Hastings, and the event was the first of its kind for something like a period of 30 years. There were guests from Eastbourne and Brighton, and an enjoyable time was spent. The President (Mr. H. E. Skyrme) occupied the chair. Mr. Hugh Linstead, Secretary of the Pharmaceutical Society of Great Britain, replied to the toast of "The Society." The Mayor of Hastings (Councillor T. S. Dymond), who responded to the toast of "The Borough," told his audience that he was once destined to take his father's place in a Midland firm, and went "through the mill" they had all been through. Mr. F. W. Burgess, President of the Brighton and Hove Association, responding to the toast of "Kindred Associations," said he was proud of the fact that he represented one of the oldest of their Associations in England, for it was founded in 1886. Mr. H. C. Browne (President of the Eastbourne Association) endorsed the sentiments expressed by Mr. Burgess when referring to the pleasure afforded by that function, and added that as a body chemists were badly paid. He urged uniformity of prices. Mrs. Burgess, the wife of the Brighton and Hove representative, replied to the toast of "The Ladies and Visitors," and made a witty speech, in which she twitted chemists that they sometimes seemed to have forgotten how to laugh.

Blackpool Chemists' Dinner

THE annual dinner of the Blackpool Branch of the Pharmaceutical Society of Great Britain was held at the Palatine Hotel recently, Mr. J. Sankey presiding. Among the guests were Mr. F. Pilkington Sargeant (past-President of the Society), Councillor T. G. Lumb (Deputy-Mayor), Alderman T. P. Fletcher, Mr. W. Bateson (Borough Treasurer), Mr. C. Careless (President of the Chamber of Trade), and others. Mr. J. Blackhurst proposed "The Pharmaceutical Society of Great Britain." Mr. Sargeant, in responding, said there was a crisis approaching in the profession, and pharmacists must stand loyally by the Society. There were two Departmental Committees sitting, one to consider the production of the British Pharmacopœia, and the other to consider the law concerning the sale of poisons. With regard to the title of chemist, the idea now seemed to be to legalise it under certain conditions. There would be a Consolidated Pharmacy Bill, a Government measure, as the result of the Departmental Committees, and in legalising the title "chemist" there were grave dangers. Pharmacists must do all they could to reserve for themselves the title which they had founded, and to which they alone were now entitled by law. Another matter related to the practice of pharmacy as controlled by the Pharmacy Acts, and the regulations made under them. It should not be left to Government departments to make regulations. The Dangerous Drugs Act was a type of that legislation. No notice had been taken of the suggestions of the Pharmaceutical Society, and the result was that the regulations were particularly ridiculous. Mr. Sargeant also appealed for support for the Parliamentary Fund. "The Blackpool Insurance Committee" was proposed by Mr. J. Holdsworth, and Councillor D. J. Bailey, in reply, said the Committee was backed up nobly by the medical profession and by the chemists.

Pharmaceutical Committees' Conference

A CONFERENCE of delegates of Pharmaceutical Committees was held at the Holborn Restaurant, London, W.C.1, on February 23, Mr. A. E. Young in the chair.

The Chairman welcomed the delegates, and pointed out that as the agenda was long the utmost brevity would have to be observed. The resolutions were discussed, passed or turned down with businesslike promptitude. In the period before lunch no resolutions were carried regarding the fixing of meal times, the removal of the deposit upon bottles, abolition of the mile limit in rural areas; while resolutions were carried regarding prescriptions not being disallowed without the consent of the Insurance Committees and reference back to the chemist; the refusal of the proposal of Pricing Offices not to allow urgent fees when the time of dispensing is not given; the abolition of the prescribing of patent medicines; a clearer definition of what constitutes a food or a disinfectant; the need of absolutely uniform testing of dispensing in every area; the abolition of advertising for Insurance dispensing by offering material inducements to bring prescriptions to a particular chemist; uniformity of contract conditions; delay in notifying chemists that a test prescription could be sent in for pricing; the introduction to the Drug Tariff of ribbon plasters of various widths; the use of poison bottles by wholesalers; the imposition upon approved institutions which dispense for panel patients of the same conditions as obtain with the chemist. The following matters were also discussed, but no resolutions passed: Doctors who refuse to write "Urgent" upon prescriptions; duration of the chemists' contracts; and unsuitable substances for testing purposes.

The Conference adjourned for lunch, and the afternoon discussion was devoted to the terms upon which Insurance dispensing should be done by chemists. The Conference unanimously passed resolutions expressing their appreciation of, and confidence in, the efforts of the Executive to improve the position of chemists in regard to Insurance dispensing. The next series of resolutions stated that the opinion of the Conference was that the present remuneration is inadequate. A long discussion then took place upon various resolutions calling for increases in the remuneration. It was ultimately resolved that the fee for compound liquid medicaments should be 6.5d. instead of 5d. as at present, and that all the other fees should be increased by one penny. A resolution was adopted calling for the removal from the Drug Tariff of all preparations within the Dangerous Drugs Act, as it was felt that when these are ordered alone there should be no reduced fee. No resolutions were carried regarding a National Formulary, special fees for "dangerous" drugs and industrial methylated spirit prescriptions, a minimum ingredient charge of $\frac{1}{2}$ d., increased fees for mixtures over 8 oz., a special fee for infusions.

The Conference ended at 5.15 p.m. with a resolution of thanks to the chairman.

Business Changes

MR. J. G. WILKINSON, chemist and druggist, has acquired the business of Mr. W. Standing, F.S.M.C., chemist and druggist, 33 Market Street, Darwen, and will shortly transfer it to Bridge Street.

R. P. CHANTLER, LTD., chemists, Luton and Ampthill, have purchased the business of Mr. W. S. Clark, chemist and druggist, 81 George Street, Luton. The business will be under the management of Mr. A. G. Pratt, chemist and druggist.

SELWOOD & NASH, drug importers and exporters, have changed their address to City Chambers, 1-6 Railway Place, Fenchurch Street, London, E.C.3. The firm occupy the same premises; it is only the address which has been changed.

MR. W. STANDING, F.S.M.C., chemist and druggist, 33 Market Street, Darwen, has disposed of his pharmacy and has acquired premises at Regent Buildings, Borough Road, where he will carry on the business of an ophthalmic optician.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, March 3.

IN Mincing Lane produce no appreciable improvement in the demand is reported, but prices for most articles remain stable. The price-changes in drugs include an advance in saffron; grey Jamaica sarsaparilla is the turn easier. Coriander seed is firmer, and caraway easier. Curaçao aloes is irregular. Matto Grosso ipecacuanha and senega remain firm. Rhubarb is also firm and fairly active. Among pharmaceutical chemicals, citric and tartaric acids are firmer, owing to stronger Continental markets. Paraldehyde is easier, and phenazone is irregular. Aspirin is very firm and higher for British make. Among industrial chemicals business continues fairly satisfactory, with few price changes. Cream of tartar is firmer and in more inquiry. Lead products meet with a moderate demand at steady rates. Oxalic acid is still unsettled. Carbolic acid crystals are weaker, as is methyl alcohol. Among the fixed oils business is still very limited: castor is firmer, but dull; linseed is easier; coconut, cotton, groundnut and palm oils are all slow of sale. Among the essential oils, star anise and cassia are cheaper. Java citronellas are dearer to arrive. Japanese dementholised is dearer for January-March shipment, which has been fairly active.

Higher	Firmer	Easier	Lower
Cedarleaf oil Citric acid Citronella oil (Jv.)	Castor oil Cream of tartar	Canary seed Caraway seed (Dutch) Carbolic acid crystals Citronella oil (Cey.) Lemongrass oil (Cochin)	Anise (star) oil Hydrogen perox. Methyl alcohol Tartar emetic Terebene Thyme oil Thymol
Cocoa butter Coriander seed Peppermint oil (Jp.)	Steadier	Linseed oil Palm kernel oil Paraldehyde Pennyroyal oil Sarsaparilla (grey Jam.) Vetivert oil	
Saffron Tartaric acid Turpentine	Ground nut oil Naphthas (solvent) Toluol		

Cablegram

BERGEN, March 2.—The catch of cod since the opening of the season amounts to 8,500,000, against 9,000,000 at the corresponding period of last year, and the yield of steam-refined non-freezing oil is 10,950 hectolitres, against 15,397 last year. The market for finest steam-refined non-freezing Lofoten oil is quiet at about 120s. per barrel, c.i.f. London.

Crude Drugs, etc.

ALOES.—Arrivals comprise 50 cases of Curaçao. Prices are somewhat irregular for t.q. at from 53s. to 56s. per cwt. c.i.f., according to seller. The exports from the Union of South Africa during October amounted to 139,561 lb. (£940), against 110,599 lb. (£986) in October 1925. During the ten months ended October 31, 1926, the exports were 744,852 lb. (£5,540), against 720,486 lb. (£5,147) for the corresponding period of 1925.

ANTIMONY.—English high-grade refined is £74 10s. to £75 per ton. With a dull demand the market for Chinese regulus has eased again, spot lots being obtainable at about £55 16s., while offers were reported from China for near shipment at around £52 10s. Parcels to arrive are worth about £54 c.i.f. It is asserted that the troubles in China have so far not much interfered with the shipments.

BELLADONNA.—Leaves are offered at 67s. 6d. per cwt. on the spot, and for belladonna root, testing 0.5, 65s. per cwt. is wanted.

BICHU.—The exports from the Union of South Africa during October amounted to 19,122 lb. (£849), against 3,105 lb. (£247) in October 1925. During the ten months ended October 31, 1926, the exports were 173,817 lb. (£8,504), compared with 174,323 lb. (£14,912) for the corresponding period of 1925.

CADMIUM is well maintained, and there is a ready outlet for Australian metal at 1s. 10d. per lb.

CAMPHOR (REFINED).—Japanese slabs are firm at 2s. 9d. per lb. on the spot, and for February-March shipment 2s. 5d. c.i.f. is quoted: 4-oz. tablets are 3s. 4d., and flowers 3s. 1d.

According to an American Consular report from Tokyo, the selling price of camphor has been reduced by the Monopoly Bureau 15 per cent., from 140 yen to 119 yen per picul.

CARAWAY SEED.—Dutch for prompt shipment is slightly easier at 37s. 6d. per cwt. c.i.f.

CARDAMOMS.—An auction of 250 cases Indian and Ceylon will be held on Thursday, March 3. Decorticated seed is offered at 4s. 8d. per lb. c.i.f.

CLOVES are quiet, Zanzibar selling at from 8½d. to 9d. per lb. on the spot; February-April shipment is quoted at 8d. per lb. c.i.f., and for March-May shipment 8½d. c.i.f. has been paid, sellers quoting 8½d. The landings in London during the week ended February 26 were 1,189, and the deliveries 654, leaving a stock of 9,028 bales, against 14,171 bales in 1926, and 11,641 bales in 1925. Up to February 26 the landings of Zanzibar in London have been 4,280, against 2,122 in 1926, while the deliveries amount to 2,845, against 2,151 last year.

COCOA BUTTER.—Prime English is dearer at from 1s. 10d. to 1s. 10½d. per lb., in not less than one-ton lots.

COD-LIVER OIL.—The market is quiet and buyers are holding off, preferring to wait the result of the March fishing. Prices for finest new steam-refined non-freezing Lofoten oil vary from 120s. to 125s. per barrel, according to seller. The yield from the Lofoten fishing is much below that of last year.

BERGEN, February 28.—As previously mentioned, the livers are lean this year. Stormy weather last week again hindered the catch. The output of all the Norwegian cod fisheries, compared with that of the previous years, is as follows:—

	To	Catch of cod	Yield of steam-refined cod-liver oil	Livers for crude oils
Feb. 19, 1927	..	5,600,000	7,094 hectol.	595 hectol.
" 20, 1926	..	5,900,000	10,136 "	1,979 "
" 21, 1925	..	4,400,000	8,585 "	4,101 "
" 23, 1924	..	4,400,000	9,991 "	2,436 "
" 17, 1923	..	3,900,000	7,635 "	2,809 "

The market is quiet. The quotation for non-freezing steam-refined quality is from 120s. to 125s. per barrel c.i.f. London.

COLOCYNTH.—The "Modasa" from Port Sudan has brought 15 bales of pulp, which have been sold to arrive. Brownish pulp is offered at 1s. 4d. per lb.

CORN PRODUCTS, ETC.—Guaranteed water-white glucose (corn syrup) is unchanged at 22s. 9d. per cwt. for prompt delivery, ex store, London, duty paid. Dutch maize starch powder (cornflour) is 15s. 6d. per cwt. on the spot, American, for prompt delivery, is 16s. per cwt. net, ex store, London. Pearl starch is 15s. 6d., ex store, London. Dutch maize starch crystals is 22s. 3d. on the spot, and American for prompt delivery is 19s. 6d. per cwt., ex store, London. Dutch dextrin is 22s. to 22s. 6d. per cwt. for superior. American canary for prompt delivery is 19s. 3d., and white 19s. per cwt., ex store, London. Dutch farina is 17s. 9d. per cwt. on the spot, and 17s. 3d. per cwt. f.o.b. for March shipment.

DAMIANA LEAVES are quoted at 9½d. to 10d. per lb. on the spot.

ERGOT.—To arrive, the easier rate of 3s. 2d. per lb. c.i.f. is quoted, and on the spot 3s. 6d. is wanted for Russian or Polish.

GALBANUM is offered at from 2s. 6d. to 3s. per lb., according to quality. Small arrivals have taken place.

GENTIAN is in fair demand on the spot, sellers offering French at 32s. 9d. per cwt.

HYDRASTIS is steady at 21s. 6d. per lb. on the spot.

INSECT FLOWERS.—Dalmatian are steady at 90s. per cwt. on the spot for fair closed.

IPECACUANHA.—Matto Grosso remains firm at 20s. per lb., and for Cartagena from 16s. 6d. to 17s. per lb. is quoted. Minas is 19s.

MAGNESIUM is in moderate demand: English makers quote 3s. 9d. to 4s. 3d. per lb. for small ingots and sticks. Powder is 4s. 9d. to 6s. per lb., according to quantity and quality.

MENTHOL has shown slightly more animation, with spot sales of Kobayashi-Suzuki at 17s. 6d., single cases being quoted at 17s. 9d. For shipment prices have improved slightly, with buyers of January-March at 17s. c.i.f., and sellers at 17s. 3d.

MERCURY has fluctuated slightly, and it is claimed that business was done occasionally at £17 5s. to £17 7s. 6d. per bottle, but the more general quotation stands at £17 10s., at which business was done for fair-sized lots in the earlier part of this week. There has been lately a little more life in the demand, and the market not being confronted with any important stocks, indications favour the maintenance of the high prices ruling for some time. The American market is

reported very firm, and it is believed that Continental producers are well booked.

OPIMUM valued at £12,113 has been imported from British India entered in the name of the High Commissioner of India.

ORANGE PEEL.—The new crop so-called Maltese machine-cut is now on the way, and it is said to be 40 to 50 per cent. below the average. 1s. 9d. per lb. is quoted on the spot for old crop, in limited quantity. Quarters have been advancing, and sound new crop is worth about 50s. per cwt.

PEPPER has been steady throughout but quiet. Fair black Singapore on the spot is quoted 11d. per lb.; Lampong, 11d.; Tellicherry, 11½d.; white Muntok, 1s. 7d. To arrive, black Singapore, f.a.q., March-May, quoted 10½d., value; Lampong, January-March, quoted 10½d., value; March-May sold at 11½d. to 11d. c.i.f.; August-October at 10d. to 9½d. c.i.f.; white Muntok, March-May, 1s. 6½d. c.i.f.; Tellicherry, March-May, sold at 9s. per cwt., and buyers, c.i.f., d.w.

PIMENTO is quiet at 7½d. per lb. on the spot, and for March-April shipment 7s. c.i.f. is quoted.

RHUBARB.—Stocks are now getting into small compass, and values are firm on the spot. A moderate quantity of medium round Shensi is offered at 3s. 6d. per lb., but the general figure is 3s. 8d. to 3s. 9d. Canton is 2s. 6d., and rough round High-dried 2s. 2d.

RUBBER is decidedly firmer, and up to 1s. 7½d. has been paid for spot. The firmer tone is due to a much better spot demand, with sellers reluctant to offer in any quantity. A fair amount of buying has been done for both Continental and American account, and even the home trade has shown more inclination to purchase. Singapore has been very steady over the past few days, and although the rise has been small the tone all round seems healthier. With the release of several steamers, which were held up the previous week by the fog, landings were heavy, and on the week there was a balance of 1,697 tons over deliveries. The London stock now stands at 58,659 tons, against 9,807 tons at the corresponding date last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and March, 1s. 7½d.; April-June, 1s. 8½d.; July-September, 1s. 8½d. per lb.

SAFFRON.—Importers state that the lowest price of Valencia has been reached, and prices are 5s. per lb. higher at from 70s. for superior down to 60s. for lowest grade.

SARSAPARILLA.—Grey Jamaica is slightly easier at 2s. 1d. per lb.

SEEDS.—The market is unchanged, and business remains exceedingly quiet. ANISE: Spanish is 49s. and Russian 30s. CANARY SEED: There is no demand; Mazagan is 17s. 6d. on the spot and 16s. 9d. for forward shipment; good bold Spanish is 28s. and small 22s. 6d. CUMIN SEED: Maltese is 30s. to 32s. 6d. spot, and Morocco 28s. to 29s. per cwt. CORIANDER SEED is very scarce and firm at 30s. per cwt. on the spot. FENUGREEK SEED is firm at 15s. 6d. to 16s. per cwt. on the spot. DILL SEED is 22s. HENISEED: Manchurian is 16s. 6d. to 17s. on the spot. LINSEED: Mazagan is 20s. 9d. on the spot. MUSTARD SEED: English is 31s. 6d. per cwt.

SENEGA is very firm at 3s. 6d. to 3s. 7d. per lb. on the spot, and at 3s. 6d. c.i.f.

SHELLAC is easier with usual standard TN orange quality offering at 182s. 6d. per cwt.; fine orange is 200s. to 300s.; pure button 225s. to 235s., and AC cakey 195s. to 200s. To arrive, sales include TN for March-April shipment at 182s. 6d. to 182s. c.i.f. Sales for delivery comprise March at 181s. 6d. to 184s. to 182s. 6d., May 185s. to 189s. to 186s. 6d., and August 188s. to 191s. to 189s. Calcutta spot is rs. 85.

VALERIAN ROOT is quiet, with Belgian offering to arrive at 77s. 6d. per cwt.

WAX, BEES'.—Although the chief purchasing season is now approaching, buyers continue to hold off the spot market, current values remaining round about £8 to £8 10s. per cwt., according to variety. Distinctly higher prices are indicated at the source, and there is a feeling that the spot position will in turn improve, particularly as foreign buyers have recently been active at the chief sources. Current quotations for shipment are: Madagascar, £8 to £8 3s. c.i.f., Benguela (transhipped from Lisbon) £8 3s. c.i.f., Abyssinian, £8 10s. c.i.f.

Essential Oils

THE demand still continues slow, much of the business passing being apparently of a hand-to-mouth description. Clove oil has been active at steady rates. Japanese peppermint has been selling for January-March shipment at much higher prices, on account of a "squeeze" in that position. Java citronella seems to have turned the corner, higher quotations ruling for forward shipment. Among the other oils, star anise and cassia are cheaper on the spot. Spanish pennyroyal and thyme have declined. Bourbon vetiver is cheaper.

ANISE (STAR).—"Red Ship" is cheaper on the spot at from 2s. 9d. to 2s. 10d. per lb. as to quantity. For shipment 2s. 6d. is quoted in leads; 2s. 4d. tins and cases; and 2s. 3d. drums, all c.i.f. to arrive.

BERGAMOT.—Forward prices appear to be fully maintained, from 27s. 9d. to 28s. 9d. per lb. c.i.f. being quoted. On the spot there are sellers at 28s. to 28s. 6d.

CAMPHOR.—Japanese white in large drums is steady at 57s. 6d. per cwt. For shipment, 40s. c.i.f. is quoted. Brown oil on the spot is 60s., and 50s. c.i.f. to arrive for shipment afloat.

CASSIA on the spot is cheaper at 7s. 3d. per lb. for 80 to 85 c.a., which would be shaded for quantity. For shipment, current quotations are made at from 6s. 8d. to 6s. 9d. c.i.f., and in some directions a lower price is mentioned.

CEDARLEAF.—Much higher prices have been quoted recently for American, up to 4s. 9d. per lb. c.i.f. being asked.

CEDARWOOD.—American is quoted on the spot at 1s. 5d. per lb. in drums and 1s. 6d. in cases.

CITRONELLA.—Ceylon is again cheaper at from 1s. 4½d. to 1s. 5d. per lb. on the spot, and for shipment 1s. 3d. to 1s. 3½d. c.i.f. to arrive is quoted. Java oil is lower at 1s. 9½d. to 1s. 10d. per lb. on the spot; for forward shipment prices declined to 1s. 9d. and 1s. 8d. c.i.f., but on Wednesday a cable offer was made at 1s. 10d. c.i.f. for April shipment, 1s. 11d. December, and 2s. 1½d. for 1928.

CLOVE.—An active demand continues for 90 to 92 per cent. eugenol content for manufacturing purposes, and in some directions distillers are fully booked for several months. Spot quotations for B.P. oil, druggists' quantities, are steady at from 5s. 6d. to 6s.

GINGERGRASS is quoted at 7s. 6d. per lb. in original pots. For shipment, 6s. 6d. c.i.f. is about the value.

JUNIPER BERRY.—B.P. oil is quoted on the spot at 8s. 9d. to 9s. per lb.

LEMON is steady at from 8s. 9d. to 8s. 10d. per lb. c.i.f. to arrive. On the spot, from 8s. 9d. to 9s. is quoted. For shipment on the way, business would be accepted at from 8s. 3d. to 8s. 6d. spot terms. Fair sales have been made of California distilled oil, which is quoted at 5s. 3d. in large drums.

LEMONGRASS.—Cochin is dull and unchanged at 3s. 6½d. per lb. in large drums, on the spot, and for shipment at 3s. 5d. to 3s. 5½d. c.i.f.

LIME.—West Indian distilled is very firm at from 30s. to 31s. per lb. Hand-pressed is scarce on the spot at 40s. Owing to the small supplies left at the source, relatively high prices are mentioned for shipment of present crop, as well as next crop, December shipment.

ORANGE.—Fair sales of West Indian sweet have been made at 8s. 3d. per lb. for fine quality. Sicilian sweet is firm, up to 9s. 6d. on the spot or c.i.f. to arrive being quoted.

PALMAROSA is firm on the spot, from 8s. 6d. to 9s. per lb. being asked for original pots, according to seller.

PATCHOULI.—Penang usual quality is easier at 38s. to 39s. per lb. Original cases of Seychelles have been quoted at 32s. 6d.

PENNYROYAL.—Spanish is cheaper on the spot at from 5s. to 5s. 3d. per lb. as to quantity.

PEPPERMINT.—Bear covering principally by Hamburg operators led to more animation early in the week, principally for January-March shipment of Japanese dementholised Kobayashi-Suzuki. This position closed last week at 7s. 7½d. c.i.f., but sales have since been reported up to 8s. 3d. c.i.f. Spot sales have been made at 7s. 4½d. to 7s. 7½d. with 7s. 9d. sellers. American natural tin oil is slow of sale at from 18s. to 18s. 6d. on the spot, and for shipment 17s. to 17s. 6d. is quoted to come forward as to brand. Italo-Mitcham has been selling at from 27s. 6d. to 28s. for fine quality on the spot.

ROSEMARY.—Spanish has been in fair demand on the spot and is steady at 2s. 3d. per lb. for fine quality.

SPEARMINT.—American is firm to arrive at 18s. per lb. c.i.f., and on the spot 18s. 6d. to 19s. is quoted.

THYME.—Spanish is cheaper on the spot for 28 to 30 per cent. phenols at 3s. 8d. to 3s. 9d. per lb.

VETIVER.—Bourbon has been rather easier at 37s. to 38s. per lb. on the spot for recent arrivals.

The following arrivals have taken place at London from the countries indicated during the period February 16 to March 2 (inclusive):—Anise (star) (China), 10 pkgs.; bay (B.W.I.), 3 x ½ cs.; bergamot (It.) 252 cs.; cade (Fr.), 3 pkgs.; camphor (Jp.) 5 dm., (Ger.) 2 dm.; cassia (Ch.), 20 cs.; cedarwood (U.S.), 1 dm.; chaulmoogra (Br. Ind.), 10 cs.; citronella (Guat.) 6 dm., (Jv.) 10 dm.; copaiba (U.S.), 2 cs.; geranium (Fr.), 5 dm.; gingergrass (Br. Ind.), 6 pots; juniper berry (Ger.), 2 cs.; lavender (Fr.), 4 cs., 1 dm.; lemon (It.), 284 cs., 20 x ½ cs.; lemongrass (Br. Ind.), 2 dm.; lime (B.W.I.), 21 cs., 18 pkgs., 2 dm.; mandarin (It.), 9 cs.; nutmeg (U.S.), 5 cs.; orange (It.), 4 cs.; orris (Fr.), 4 pkgs.; palmarosa (Br. Ind.) 4 pkgs., 1 dm., 2 pots, (Jv.) 2 cs., 1 dm.; peppermint (U.S.) 23 cs., (It.) 1 cs., (Ger.) 15 cs.; potidgrain

(Fr.), 3 cs.; pine (Switz.) 1 cs., (Ger.) 2 dm.; rose (Holl.), 1 cs.; rosemary (Fr.) 1 cs., (Sp.) 7 dm.; sage (Sp.), 1 dm.; sandalwood (Ger.), 1 cs.; spike (Sp.), 7 dm.; sassafras (U.S.), 4 cs.; velviter (Fr.), 1 cs.; wormseed (U.S.), 4 cs.; undecorated (Holl.) 2 pkgs., (Fr.) 3 cs., (U.S.) 1 cs., (Ger.) 1 cs.

Pharmaceutical Chemicals, etc.

CITRIC ACID and tartaric acid are firmer owing to stronger conditions on the Continent. Otherwise the market shows little change, and continues generally steady. Business has been on moderate lines. The first list of Exemption Orders, expected for some weeks past, has not yet been issued.

ACETANILIDE continues to be quoted on spot at 1s. 6½d. per lb. for B.P. crystals and powder; business quiet.

AMIDOPYRIN.—Spot stocks are reported scarce, with the price close up to 11s. 9d. to 12s. per lb.

ASPIRIN.—The market is firm, and business has progressed on a fair scale; recognised brands, 2s. 4½d. to 2s. 5½d. per lb., as to quantity. British makers now quote 2s. 5d. per lb., and report a brisk demand.

BARBITONE remains dull, and there is evidence that some holders are anxious to clear before the Key Industry duty is taken off; quoted at about 8s. 3d. per lb. spot.

BENZALDEHYDE (0.03) is offered at about 1s. 9d. per lb., in carboys; market remains quiet.

BENZOIC ACID (B.P.) is unchanged, with British at 2s. 3d. to 2s. 4d. per lb., ex works, and Continental, p.f.f.c., 3s. 6d. per lb., spot.

BENZONAPHTHOL remains dull at about 3s. 3d. per lb. for small lots.

BROMIDES are unchanged; prices are level on the week, with business quiet: ammonium, 2s. 1½d.; potassium, B.P. granular and crystals, 1s. 9d. to 1s. 9½d.; sodium, B.P., 1s. 11d. per lb., for large quantities.

CALCIUM LACTATE is offered at 1s. 3d. per lb., in small parcels, and larger quantities would be slightly cheaper; market quiet.

CHLORAL HYDRATE is quoted at 3s. 2½d. per lb. for duty-paid crystals, with isolated offers at 3s. 2d.; market is quiet.

CITRIC ACID (B.P. crystals).—Following on our remarks in last week's report notifying stronger conditions on the Continent the spot position is now firmer at 1s. 4d. per lb., less 5 per cent., while offers from Continental makers are firm at 1s. 4d. per lb., less 5 per cent. c.i.f. There may be some secondhand lots still available at cheaper rates.

CREOSOTE (B.P.) shows no change at 1s. 9d. per lb., for quantities, in demijohns.

CREOSOTE CARBONATE remains dull at about 6s. per lb. GUAIACOL CARBONATE is irregular and neglected at about 6s. to 6s. 6d. per lb.

HEXAMINE.—Prices quoted vary according to quality from 2s. 4½d. to 2s. 5½d. per lb., the latter for free running crystals; business has been moving fairly well.

HYDROGEN PEROXIDE is about 3d. per gallon cheaper from makers, who quote 12 vol. strength at 1s. 5d. per gallon, naked, f.o.r. maker's works.

HYDROQUINONE is quite neglected, although the season should now be opening up; buyers are awaiting issue of Treasury Exemption Order: spot quoted at from 3s. 11d. per lb.

LACTIC ACID (B.P.) is steady under the control prices: one-ton lots, 2s. 4½d.; ten-cwt. lots, 2s. 5d.; 2 to 3-cwt. lots, 2s. 6d.; under 2 cwt., 2s. 6½d. per lb.; technical, 50 per cent. by weight, £42 per ton.

MENTHOL (SYNTHETIC) is quoted at from 10s. 6d. to 12s. per lb. as to quantity.

METHYL SALICYLATE.—Quotations are about the same, but with the market quiet prices are barely steady; quoted from 1s. 6d. to 1s. 6½d. per lb.

METHYL SULPHONAL is rather firmer at about 15s. to 15s. 6d. per lb. spot.

MILK SUGAR.—Continental is offered at from 60s. to 63s. per cwt., in cases, according to quantity.

PARAFORMALDEHYDE (100 per cent. powder) shows no change at 1s. 9d. per lb., for quantities in kegs.

PARALDEHYDE is easier on a quiet market at from 1s. 1½d. to 1s. 2½d. per lb., according to quantity and packing.

PHENACETIN.—Business is limited to urgent requirements, and mostly in small lots; buyers and importers still await issue of the Treasury Exemption Order: spot, crystals and powder, about 3s. 10d. per lb.

PHENAZONE is very irregular; some offers are reported at 5s. 9½d., while others are up to 5s. 11d. to 6s.; the forward position is also very unsteady.

PHENOLPHTHALEIN is unchanged at 6s. 1½d. to 6s. 3d. per lb., according to quantity.

POTASSIUM PERMANGANATE (B.P.) remains slack; dealers' prices are keen in the region of 6d. per lb. for quantities in drums.

POTASSIUM SULPHOGUAIACOLATE is practically idle on spot; dealers quote from 5s. to 5s. 6d. per lb.

RESORCIN continues bright at from 4s. 3d. to 4s. 5d. per lb., according to quantity.

SALICYLIC ACID (B.P.).—Business has been slow, with prices for ordinary sized lots from 1s. 4d. to 1s. 4½d.; a shade less might be taken for good contracts.

SALOL is irregular, with a moderate business down to about 3s. per lb. for quantities.

SODIUM BENZOATE (B.P.).—Prices quoted are about level at 1s. 8d. per lb. for best quality, and a penny less for second grade; inquiry continues good.

SODIUM DIETHYLEARBITURATE is slow of sale from 9s. and upwards per lb.

SODIUM SALICYLATE (B.P.) has been rather sluggish, but there is no actual change in prices: crystals, 1s. 10d.; powder, 1s. 9½d. per lb. for quantities.

SULPHONAL remains slack at about 10s. per lb.; forward position uncertain.

TANNIC ACID.—B.P. *lcriss* is quoted at 2s. 8d. per lb. for quantities in kegs; small lots, from 2s. 10d. per lb.

TARTAR EMETIC is quoted by English makers at from 2s. to 2s. 1d. per lb. for B.P. crystals or powder.

TARTARIC ACID (B.P. crystals).—The firmer conditions reported last week are more than maintained, with dealers now quoting foreign from 1s. 0½d. per lb., less 5 per cent., for quantities to come forward. Some spot secondhand material may be under these rates.

TEREBENE.—Makers have reduced the price of pure by 2d. per lb., making the quotations 2s. 1d. to 1s. 10d. per lb., according to quantity.

TERPIN HYDRATE remains slack, with dealers freely offering from 1s. 6d. to 1s. 7d. per lb.

THYMOL is cheaper: quotations are now from 11s. 3d. per lb. in one-cwt. lots, up to 11s. 6d.

VANILLIN is fairly steady, with 100 per cent. from cloves quoted at 18s. per lb., and something less for good contracts.

During the period February 15 to 22 inclusive the following imports of chemicals have paid Key Industry duty:—Acetic acid, glacial, £951; acetone, £1,851; argyrol, £700; butyl alcohol, £1,635; diamorphine hydrochlor., £650; emetine hyd., £242; hydroquinone, £449; isopropyl alcohol, £425; magnesium hydroxide, £404; morphine hyd., £1,314; novocain, £225; phenacetin powder, £139; potassium bromide, £540; quinine ethyl carbonate, £326; sodium benzoate, £133; undecorated chemicals, £1,724.

Industrial Chemicals, etc.

London, March 2.

THERE is little change to comment upon. The market is steady in most directions, and business continues on a fairly satisfactory scale. Oxalic acid continues scarce on spot at dear rates.

ACETIC ACID is quoted at level rates, with moderate business in small lots: 80 per cent. technical and 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99/100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex wharf.

ACETONE is steady, and inquiry has been a good deal better of late: B.G.S., in drums, £53 per ton, ex store.

AMMONIA (ANHYDROUS).—There is continued inquiry for the summer months, and prices are steady at 1s. to 1s. 1d. per lb. in loaned cylinders, carriage paid; slightly cheaper for contracts.

AMMONIUM CHLORIDE.—Grey galvanising is receiving attention from buyers, and dealers are doing fairly well on their spot quotation of £22 per ton, in casks, ex store.

ARSENIC is firm in spite of the more frequent offers reported from abroad. White Cornish is about £17 5s. f.o.r. mines for 99 per cent. It is possible that business might be done at less, although small lots are commanding up to £17 10s.

COPPER SULPHATE is steady with a fair demand for export at about £24 5s. to £24 10s., f.o.b., less 5 per cent. for casks.

CREAM OF TARTAR is very steady as quoted, and there is more inquiry on the market: Continental is 85s. to 86s. per cwt. on the spot.

EPSOM SALT is steady, but business is quieter again: spot commercial quality in single bags, £5 per ton, ex store. Cheaper prices for quantities to come forward.

FORMALDEHYDE is quoted at £39 per ton, ex wharf, in barrels, for 40 per cent. by volume.

FORMIC ACID has been in quite good inquiry, and prices are now steady from £45 10s. to £46 per ton for 55 per cent. in carboys, ex wharf.

LEAD PRODUCTS.—Lead acetate has met with occasional inquiry: dealers quote brown at £41 5s. and white at £43 15s. per ton, in casks, ex store. Red lead, imported, £35 10s., c.i.f. London; white lead, dry, £35 10s.; ground

in oil, £37 7s. 6d., c.i.f. London. Market closes steady, with moderate business.

LITHOPONE is very steady, with dealers quoting at £20 per ton, for best brands of 30 per cent. Continental red seal, in casks, ex store. Contracts at slightly cheaper rates.

OXALIC ACID is still unsettled, and beyond small urgent needs there is practically no business, buyers holding off until the Treasury Exemption Order is issued. Quoted from 4d. per lb.

POTASH CAUSTIC is steady under the Convention prices; business only moderate: spot, 88/92 per cent, solid, £29 per ton, in drums, ex store; 15 tons or more, £27 5s. per ton, c.i.f. U.K. port.

POTASSIUM CARBONATE has been slightly brighter, with dealers' prices unchanged: 90 to 92 per cent., £24 10s.; 96 to 98 per cent., £26 per ton, in casks, ex store.

POTASSIUM CHLORATE is still in but small demand at about 3½d. to 3¾d. per lb., according to quantity.

POTASSIUM PERMANGANATE.—The little business coming on the market is scrambled for by merchants at cut rates of about 4½d. to 5d. per lb., in drums.

POTASSIUM PRUSSIAN is steady and continues to be called for in good quantities: yellow, 7½d. per lb., in casks, spot and forward

SALTCAKE remains dull and difficult to move at quoted rates of £3 10s. per ton, for home trade, in bulk, delivered.

SODIUM ACETATE is weak and dull as quoted from £19 per ton, in casks, ex store.

SODIUM HYPOSULPHITE should begin to move in better quantities in the near future; prices are unchanged. Dealers quote pea crystals in one-cwt. kegs at £15 7s. 6d. per ton; commercial lump, £9 per ton, in casks, ex wharf. British makers' price to home consumers for pea crystals, £15 5s. per ton, carriage paid to buyer's station.

SULPHUR is firm, and there is a fair outlet both for crude and refined. Italian crude is £6 5s. c.i.f.; Sicilian flowers, £12 17s. 6d., and roll £10 5s. on c.i.f. terms to arrive.

COAL TAR PRODUCTS, ETC.—Carbolic acid crystals in bulk quantities are cheaper this week, with the market quiet. Other items are mostly unchanged, with the tone rather in buyers' favour. Pitch, although still dull, is unchanged after a long spell of falling markets. ANILINE OIL is now steady as quoted at about 7½d. per lb., in loaned drums, carriage paid. ANILINE SALT is offered at about 7½d. per lb., packages extra, carriage paid. BETANAPHTHOL is moving well in the region of 1s. per lb., carriage paid. TOLUOL is steadier but in small demand: commercial 90's, about 1s. 10d.; pure, about 2s. 6d. per gallon, at works. XYLOL remains very dull: pure, about 2s. 7d.; commercial, about 2s. 3d. per gallon, ex works. CARBOLIC ACID crystals show a further slight fall in value, with the quotation for large quantities down to 6d. to 6½d. per lb., f.o.b., in drums with overcasks. Crude 60's is 1s. 8d. to 2s. per gallon. CRESYLIC ACID continues active on a firm market: 97 to 99 per cent., 2s. to 2s. 3d. per gallon; pale 95 per cent., 1s. 10d. to 2s. 2d.; dark, 1s. 9d. to 2s. 1d. NAPHTHALENE has been quiet, and is unsteady on Continental quotations: flakes and balls, £14 to £14 5s. per ton, f.o.b. Hamburg. English makers quote crude, whizzed or hot pressed, £3 10s. to £9 per ton. Pure METHYL ALCOHOL is cheaper, with the market remaining slack: quoted at about £46 per ton, in drums, ex wharf. PYRIDINE is lifeless: quoted nominally at 10s. 6d. per gallon, f.o.b. PITCH.—Prices have remained unchanged, with the quotation at 100s. per ton, f.o.b. East Coast; the season is drawing to a close.

Fixed Oils, etc.

BUSINESS is still very limited in volume, and most products continue dull. Acid oils, coconut, cotton, groundnut, and palm oils have all been slack. Rape oil is firm, and American turpentine is much steadier at better rates. ACID OILS continue dull and irregular: coconut and/or palm kernel, 36s. 3d.; groundnut, 32s.; soya, 24s. 6d. spot. CASTOR is firmer but dull: pharmaceutical, 56s.; first pressings, 51s.; second pressings, 48s. 6d. spot, in barrels in not less than one-ton lots. COCONUT is still slack, and prices are unchanged: deodorised, spot, 49s.; Ceylon, 42s., c.i.f.; Cochin, 44s. 6d., c.i.f. COTTON shows little change, with business quiet: deodorised, 47s.; common edible, 45s.; soapmaking, 45s.; crude, 38s., spot. GROUNDNUT is steadier but dull: deodorised, spot, 52s. 6d.; crude Oriental, 46s., c.i.f. PALM KERNEL is slightly cheaper on a quiet market: deodorised, 47s. 6d.; crude, 42s., spot. PALM is fairly steady, and prices show little change on the week, but business has once more been disappointing: Lagos, 36s. 9d.; softs, 35s. 9d.; mediums, 35s. 7½d.; hards, 35s. 6d.; bleached, 38s. 9d., spot. RAPE continues firm at level rates on the week: refined, 51s.; crude, 49s., spot. SOYA.—Business has been slow and market is unsteady: deodorised, 41s. 6d.; crude, 38s., spot. LINSEED (raw, naked).—Prices for all positions show a slight

decline, and business has been quiet: spot, 53s.; March-April, 31s. 3d.; May-August, 31s. 3d.; September-December, 31s. 9d. Boiled oil, spot, 37s. 6d. Hull, on spot, 32s. March-April, 31s. 10½d.; May-August, 31s. 9d. per cwt. TURPENTINE has been more interesting and much stronger, but closed easier on Wednesday evening. Spot delivery sold at 49s. 6d., but on Wednesday 48s. was paid. April, 48s. 6d.; May-June, 49s. 6d.; July-December, 50s. Early reports about crop prospects are said to be satisfactory, and business in forward positions continues slow. Deliveries last week were excellent at 3,359 barrels, making the total since the beginning of the year 19,454 barrels, comparing with 20,826 barrels at the same period last year. Stocks have been reduced considerably, amounting to 57,225 barrels, which also represents the London visible supply, as there is no spirit landing or afloat. This total compared with 40,536 barrels at the same date last year. RESIN has remained neglected, being so far quite unaffected by the anticipated shortage in near positions. American c.i.f. quotations were about as follows: B to E 21s. 8d. to 22s. 10d., F to G 23s. 1½d. to 23s. 6½d., H to I 25s. 4d. to 25s. 10d., K to M 27s. 1½d. to 27s. 11d., W.G. 34s., and W.W. 37s. 2d. Wharf terms command about 6d. per cwt. mote. WOOD.—Hankow is steady at 85s. per cwt., spot, in barrels.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Conditions show little change, although most articles are easy. Business has remained quiet. BENZOL continues steady, with good business: crude 65's, 1s. 4d.; standard motor, 1s. 9½d.; pure, 2s. 6d. per gallon, ex works, in tank wagons. FUEL OIL is unchanged. PARAFFIN WAX and SCALE are unsteady and quiet: wax 2½d. to 4½d. per lb., according to melting point, in bags; scale is £23 7s. 6d., c.i.f. U.K. port. PARAFFIN OILS are unchanged: American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free; Russian prime white kerosene, 6½d. to 7d. ex tank; 7½d. buyer's barrels filled free, and 11d. per gallon, barrels free, ex wharf, London. WHITE OILS are unchanged; market is quiet and easy. SOLVENT NAPHTHAS are steadier, but still very quiet: 90 to 160, 1s. 6d.; heavy, 90 to 190, 1s. 3d. per gallon, naked at works. PETROLEUM JELLIES are slow and unchanged. LUBRICATING OILS.—The shipment market is firmer, while the spot position continues steady and unchanged: spot, pales, £10 7s. 6d. to £23 5s.; reds, £12 12s. 6d. to £23 5s.; dark cylinders, £12 15s. to £24; filtered cylinders, £20 to £23 10s. per ton, less 2½ per cent., ex wharf, London; lower prices for quantities.

Angola Beeswax

IN the course of an article contributed to the "Bulawayo Chronicle" by Mr. M. T. Kays, and reprinted in the "Financial Times," it is stated that "beeswax is a very important article—in fact, the most important of commerce and export in Angola. The Portuguese call beeswax the gold of Angola. I have seen on one occasion a Portuguese merchant at Mexico, a Senhor Mota, sending away to the coast in one consignment nine wagons loaded with beeswax, each wagon carrying 5,000 lb., in all 45,000 lb., all beautifully refined by him, and all in huge blocks of 105 kilos. He is one of the few Portuguese who knows the secret of refining his beeswax. The price paid for beeswax in trading with the natives is 10 escudos per kilo, equivalent to 2s. per kilo in English money."

American Peppermint Oil Crop

FURTHER official figures in regard to the American peppermint oil crop of 1926 have been issued by the U.S. Department of Agriculture (*C. & D.*, November 20, p. 780). The production originally estimated appears to have been exceeded, and the 1926 crop, of 753,000 lb., remains the largest ever recorded. The following are the official figures:—Indiana harvested 39,300 acres of peppermint in 1926, from which 518,000 lb. of oil was distilled. The yields of oil reported were very diverse, but the indicated average per acre is 13.2 lb., or one-tenth lb. lower than in 1925. The yield in the western part of Indiana was 14.2 lb. per acre; in the central portion of the peppermint area 11.2 lb.; and in the eastern section, 15 lb. per acre. The production of oil in Indiana in 1925 was 273,000 lb. from 20,400 acres. The increase in acreage last year is almost entirely due to a smaller loss of planted acreage from frost and winds. The Michigan harvested acreage of peppermint is estimated at 10,300 acres, compared with 5,000 in 1925. The yield per acre is estimated to be 16 lb. last year, compared with 11.2 lb. in 1925. The indicated oil production is 165,000 lb., against 56,000 lb. in 1925. In Washington and Oregon the acreage of peppermint has been variously reported, but 2,500 acres seem the most probable figure. Production estimates range from 42,000 to 75,000 lb. In view of the numerous reports of phenomenal yields, the common figure of 70,000 lb. seems strongly indicated.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Inadequate Insurance Dispensing Fees

SIR,—I have been reading with interest the various letters, and also a "leader" lately, in the columns of your paper, with reference to the N.H.I. dispensing service, and am astonished at the low estimate of the value of the services rendered, in the shape of the fee attached, and at the submission of the craft to its incidence. Surely it is time we all got together for the purpose of either having our services properly paid for, or resigning *en bloc*; it is simply absurd grumbling about 6-, 8- or 12-oz. bottles and other pettifogging annoyances incidental to the service and still go on doing the thing. Personally I consider it would not be a bad thing for chemists generally if they disbanded the Society, scrapped the R.P.U., and came off the panel *in toto*—and started afresh with a clearly defined policy, the prime object of which should be the dispensing of medicine by chemists only, with a fee for services more in keeping with the qualifications necessary to become a chemist, the elimination of dispensing in doctors' surgeries (unless under supervision of a chemist), and confining the sales of drugs and chemicals of the B.P. to the duly qualified only. This would give something for the aspirant in pharmacy to go for, and tend to encourage a better class of man to enter its ranks than the present travesty of pharmacy invites.—Yours faithfully,

F. H. SLINN.

Rhyl.

Making Dispensing Pay

SIR,—The very interesting article No. IV, under this heading, caused at least one reader furiously to think. He is a chemist, now on the manufacturing side of the trade, and, during the last year or two, his family has required medical attention all too frequently. The doctor, a very efficient medical woman, runs her own dispensary, from which numerous bottles of medicine have found their way to the reader's house. He himself has had the strange experience of "dispensing" this medicine to his family, a dose at a time, and the still less pleasant duty of paying various bills made out "To Professional Services and Medicine." Presumably the adjective refers only to the "services!" The doctor is well aware that the person who pays the bills is a chemist, but no qualm on the ground of professional etiquette seems to disturb her equanimity. The situation is humorous, irrational, even a trifle tragic; but might it not, with a little diplomacy, be turned to the advantage of the craft in this town? Could it possibly be made a starting-point towards the ideal already attained in the town described in the article? Then perhaps there will be two bills at the end of the quarter, made out respectively "To Professional Services" and "To Medicines Professionally Dispensed." The writing out of the second cheque will be as nearly a pleasure as this operation ever can be!—Yours, etc.,

SCUTA (3/3).

An Official Interpretation

SIR,—One would infer from Councillor Frank Hines's letter (*C. & D.*, February 26, p. 268) that the new drug tariff waters were inferior to B.P. waters. *Chloroform Water*.—The difference is that tap water replaces distilled water. *Peppermint Water*.—This water in the previous drug tariffs was not B.P., and was made by diluting a costly concentrated water (from which no spirit rebate is allowed) with tap water. The new form to be included in drug tariff is nearer B.P. than formerly, in containing no spirit, the difference being that the water is fresh from the main, and is not (with the addition of peppermint oil) subjected to distillation and subsequent skimming to remove undissolved oil. It has not been proved that the water prepared according to

Form G.P. 58, which will be included in the drug tariff, contains less oil than the B.P. water, so that we need not be afraid of analysts. I would have preferred to see the goods (ol. menth. pip.) delivered, and this can be done when aqueous solutions of salts are dispensed by using an equivalent quantity of emulsio menthæ piperitæ, B.P.C., 30 minims of which is equivalent to 8 oz. of the tariff aq. menth. pip. *Camphor Water* is, again, made by substitution of tap water for distilled water. Do either chemists or insured persons suffer by the change? I think not. The Treasury loses, as it does not allow a rebate of the additional spirit duties imposed by successive Budgets on spirit used in manufacturing aq. menth. pip. conc., as is done with certain other medicinal preparations. The loss is more than a few pounds, as the old duty and additional duties are saved. The R.P.U. are fully alive to the change, were consulted, and agreed with the Ministry of Health to the introduction of the same, the chemist to be paid for manufacturing chloroform water 1s. per gall., *plus* cost of chloroform, and 1s. 8d. per gall. for peppermint water, *plus* cost of peppermint oil and purified talc.

Yours faithfully,

WM. FORSTER.

Seaham Harbour.

A "Close Up" View of N.H.I.

SIR,—Owing to various disabilities, it has been my fate to become one of the many millions of workers docketed and tabulated under the rules of the N.H.I. Although one may under certain conditions become exempt, this does not relieve the employer of his liability, and as a fact there perhaps comes a time when one becomes philosophic enough to let matters take their course. My doctor—the family doctor for some years—treats me well, and there is nothing to complain of on that score. What I am specially interested in is the "physic" part of the business. I have never accustomed myself to drug taking, and in truth my own specific trouble is one that calls for warm quarters and nourishing food rather than for medicine. It strikes me, therefore, as curious that every time my medical attendant calls he seems to think it his duty to leave a prescription. There being no reason why the chemist should be deprived of his dues, we get these scripts dispensed, though I should be sorry to be compelled to swallow the medicine. I am certain I should be feeling much worse than I do if that happened. During ten days I received five visits and a script for sixteen doses (3ss. ter die) with each—eighty doses in about ten days; I have taken, perhaps, twenty. In regard to the medicine itself I have nothing to complain of, except that on two occasions elixir heroin. et terpin. hydrat. was ordered (5ij. with aqua ad. 3viij.). I found that to be a villainous combination, and on each occasion of taking a dose I upset my household by raving and shouting, a condition of excitation being quickly produced. As for the taste, I am only just getting it off my tongue. The people who evolve these remedies ought to be, in my opinion, made to take the same by the bucketful. Doctors order many medicaments without any real knowledge of the practical kind; and they order too much—that is to say, in the way of dosage. As to the B.P.C. and other formularies, I would ruthlessly eliminate half their contents.—Yours, etc.,

VETERAN (14/2).

Securing Medical Support

SIR,—I think that the writer of the articles entitled "Making Dispensing Pay" must have been very fortunate in the selection of his locality, or he must have met a very superior type of doctor, as the average general practitioner is not nearly so professional or disinterested when it comes to a question of £ s.d. as he would have us believe. I admit that mine is one of those pharmacies which rarely has a visit from a doctor; the only occasion on which such an exalted personage condescends to enter my door is when he happens to run short of some drug and expects me to supply him with it at cost price, even after closing hours. With the exception of Insurance work, the only scripts I see are when a customer goes direct to a

specialist, as if a person is recommended to a specialist by a local doctor the latter takes care that the resultant prescription does not reach the local pharmacist; and if I send a customer to a doctor he is lost to me for good unless he requires some shaving soap or other toilet article—and really I should not be surprised, any day, to hear that he can get these at the surgery as well. Indeed, the attitude of some of the medical fraternity would seem to be that the chemist is a kind of interloper who has no right to be in business at all. My attempts, when first commencing business, to effect a medical connection were received with such an air of hostility and downright snubs that in the course of years I have become thankful that I have nothing to do with this kind of work and am able to carry on without it. With regard to the writer's "don'ts," he says that the National Health Insurance Act made people think and ask questions; that is quite true, and particularly so with the first two don'ts." In the old days customers might have had implicit faith in the doctor and have thought that his prescriptions were without flaw, but not so now. When the doctor directs the insured patient to bring the bottle back with the lost dose in it, so that he may know what to repeat, then he repeats it and the customer gets something which looks the same and tastes different; when the doctor tells him that he is to have pills or a liniment and then writes a script for a mixture only; and when he has a wound and the doctor hands him out a form without troubling to examine him—then one can easily see why the first two "don'ts" do not count for much to-day, at any rate with Insurance customers. And so we get the man who presents his N.H.I. script with the remark that he is suffering from such and such an ailment, and will this stuff be good for it? The scheme described whereby the dispensing is all sent to the chemist is on the right lines, and the town in which it has been adopted is fortunate; but such a proposition would never have a ghost of a chance in my neighbourhood. Writing the names of drugs backwards is likely to deceive nobody of ordinary intelligence.—Faithfully yours,

SOWER (26/2).

Bottles in Insurance Dispensing

SIR.—It is curious that, notwithstanding the disaffection and criticism over the fees, etc., in connection with Insurance work, no mention is ever made of that perennial bugbear, the Insurance bottle. What panel chemist has not repeated, for his thousandth time, the threadbare formula: "Did you bring a bottle?" "No." "Shall we supply you with a bottle, or will you bring one? A bottle will cost you 2d." Ninety-eight per cent. of the insured people pay for a bottle, if they pay at all, under protest. And when he has returned from his thrifty errand of fetching one from home, he hands over for an 8-oz. mixture, with the air of a man who has honourably discharged his obligations, a battle-scarred 6-oz. Why cannot a beneficent State, which pays for his glasses, his teeth, his physic, and his funeral, supply him with a bottle as well, and remove, once and for all, this fruitful cause of friction between dispenser and insured?—Yours, etc.,

A. N. T. (25/2).

Legal Queries

Belgravia (26/2).—Both the labels for influenza which you send would render the preparations to which they are attached liable to medicine-stamp duty.

S. J. (22/2).—*The Chemist and Druggist Diary*, 1927, gives the various poisons schedules that are in force in Great Britain and Ireland. From these you will see that phosphorus is a scheduled poison in Ireland, but not in Great Britain.

T. N. (24/2).—(1) An unqualified person cannot sell by retail a medicine containing chlorodyne assuming that the chlorodyne contains one or more scheduled poisons. (2) The formula for a medicine can be protected by obtaining a patent for it. The other method is to keep the composition a secret.

P. L. D. (23/2).—If an "entire" drug is mixed with colouring matter it cannot then be sold without a medicine stamp if it is recommended for an ailment or otherwise rendered liable to duty.

Cestrian (22/2) has an apprentice, aged sixteen, to whom he does not pay any wages. Must the lad be insured under either the Health and Pensions scheme, or the Unemployment Insurance scheme? [As the apprentice does not receive any money payment he is not liable to be insured under either scheme.]

A. T. & Co. (23/2).—Any preparation containing brucine, strychnine, metallic cyanides and tartar emetic come within the poisons schedules and can only be sold retail by qualified chemists. Wholesale transactions to retailers are subject to the necessity of labelling the name of the article, the word "poison," and the responsibility rests with them to give the proportions of the scheduled poisons contained in the preparation.

C. E. S. (24/2).—(1) It is illegal for an unqualified person to carry on the business of a chemist and druggist even if he employs in the shop a qualified chemist. He may, however, be a director or shareholder in a limited company which is allowed to carry on the business if it conforms with the provisions of Section 3 (4) of the Poisons and Pharmacy Act, 1908. (2) Full particulars of the law as to companies are given in *The Chemist and Druggist Diary*, 1925.

Cyanide (21/2).—The Dangerous Drugs Act Regulations require the total amount of the drug to be supplied to be stated on the prescription. The written-out formula for each powder, with the number to be supplied actually fulfils this requirement. Similarly "Cocain. hyd. solution 1 per cent. mitte 1 oz." actually states the total amount of the drug to be supplied. Your prescriptions are in order; the Regulation does not prescribe any method of expressing the "total amount," so that the doctor is entitled to use any expression covering the term, and you are justified in accepting such a prescription.

Partnership (14/2).—A and B are partners for a fixed term, at the expiration of which, at an early date, A will retire. They have been carrying on business together as "A and B," and B has stated that he intends to continue to trade alone under the same style. How can A compel B to discontinue the use of his (A's) name? [Only by injunction could B be restrained from using A's name; but, in our opinion, an injunction would not be granted, as the retention of A's name in the trading style need not involve A in any liability. If, upon his retirement, A gives notice to the firm's customers that the partnership is dissolved, and also advertises the fact in "The London Gazette," he will not be liable for any debts incurred by B, even if his name remains in the trading style. Moreover, the provisions of the Registration of Business Names Act will make it necessary for B to disclose that he is trading alone under the name of "A & B." We do not think that the Court would prevent B from using A's name merely because A objects.]

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," March 15, 1877
Early Morning Botany

We think the Council should grant a pension to any London student, especially if in middle life, who rises at an unearthly hour in chase after species or varieties. None of our immediate friends would trench upon the funds of the society, save one, and he is a College Dean, and therefore is exceptional in his actions. It is an easy task to one whose bedroom window looks out upon a smiling landscape, gay with flowers and all the loveliness of nature, to start at dawn with his Bentley and tin box in quest of floral specimens; but let him share our leaden atmosphere and melancholy surroundings, and the pursuit of botany becomes heroic. By all means, then, let not such enthusiasm be limited to the age of twenty-one. Let the Council foster a spirit of devotion by the extension of a three years' lease of time. After twenty-four, we say it with regret, the fine fervour slackens.



[Commenced C. & D., July 5, 1924]

Insurance: Average Clause.—The ordinary average condition used in non-marine policies reads as follows:—"Whenever a sum insured is declared to be subject to average, if the property covered thereby shall at the breaking out of any fire or at the commencement of any destruction of or damage to such property by any other peril hereby insured against be collectively of greater value than such sum insured, then the insured shall be considered as being his own insurer for the difference and shall bear a rateable share of the loss accordingly." (Appropriate alteration is made in the wording when used for burglary policies.) The clause means that, if one insures the property for part only of its full value, any loss must be shared—e.g., if stock worth £1,000 is only insured for £600 subject to average, and damage is caused to the extent of £250, 60 per cent. (£150) only will be recoverable under the policy. The average clause is a usual feature of Lloyd's policies, but is not used to the same extent by the companies. It is invariably applied to insurances covering the buildings or contents of separate premises in one sum, or to any similar risks, where there is a likelihood that the proposer for insurance would seek to cover a part only of the total value at risk, on the ground that for some reason a single fire could not effect a total destruction. The average clause has been subjected to a great deal of criticism from time to time, but it is difficult to maintain that its use is inequitable. Some policies, particularly floating insurances applying to merchandise in docks, carriers' warehouses, and the like, are made subject to what are known as the "two conditions of average." The expression is, however, a misnomer, for the second condition is not really an average one. The first is the ordinary average clause cited above; the other is expressed to the effect that any more specific insurance (i.e., one of narrower range) is to be exhausted before the floating insurance contributes to the loss. This is often an important advantage to the insured, specially in cases in which the total value of stock held is known and is fully insured, but the amount in different buildings is subject to considerable fluctuation. A condition is commonly found in fire policies to the effect that, if there is any other insurance on the insured property which is subject to average, the present policy shall be subject to average in like manner. This is a clause which might be found to operate against a claimant in a manner which he might well have failed to foresee, though it is difficult to imagine that undue advantage would be taken of it by any insurance office of repute.

Insurance: Boiler and Engineering.—This heading comprises insurances in respect of steam boilers, economisers and other vessels which work under steam, water, gas or air pressure, steam, gas and oil engines, dynamos and other electrical plant. Lift insurances are often dealt with in conjunction with engineering business, but these will be considered separately. The leading principle in connection with all boiler and engineering business is the prevention of accidents by periodical inspections carried out by skilled engineers at regular intervals; consequently by far the greater proportion of the premiums earned is absorbed by these services rather than by the payment of losses. The Factory and Workshop Acts, 1901 and 1907, made it incumbent on the users of steam boilers to arrange for inspections at stated intervals by persons accepted as competent by the Board of Trade and Home Office, and reports on these

examinations are required to be rendered on prescribed forms. The boiler companies carry out this work, and at the same time are usually ready to give expert advice, not only in the direction of the safety of the plant, but also in the matter of possible improvements in the development of power or economy in fuel consumption. The services of the companies can also be obtained for such purposes as the examination of second-hand boilers and engines offered for purchase, preparation of specifications and supervision of the construction or erection of boilers and machinery, etc. All boiler and engineering policies provide for inspections, but the risks insured vary slightly. Under boiler policies indemnity is provided in respect of damage caused by explosion to the boiler itself or to the buildings, machinery or other surrounding property, damage caused by the collapse of furnace flue tube or firebox, third-party liability for injuries to the public, and, in the case of heating boilers, the risk of cracking. Gas and oil engine policies are somewhat similar, but they include the risk of breakdown, though, on the other hand, the third-party risk is not covered. Dynamo policies provide for inspections, tests and the risk of breakdown. When any plant is insured against explosion or breakdown, quotations can generally be obtained also for what are known as "time loss policies." These guarantee payment of compensation at a specified rate per diem during such time as the plant is completely stopped for repairs, a proportionate part being payable in the event of a partial stoppage. The various rates charged under boiler and engineering policies are somewhat complex, and it is not feasible to summarise them briefly.

Insurance Brokers are in a somewhat different position, as towards their clients, from that of the ordinary insurance agent. The agent is, as a rule, in the position of a canvasser or collector, the medium by which proposals are transmitted to the company. He may have authority to accept or decline a risk, but his responsibility in that direction lies towards the company for whom he is acting. An insurance broker, on the other hand, professes (tacitly or otherwise) to be competent to advise his clients on matters cognate to the business and to deal properly with insurance risks entrusted to their care; and failure to do so with reasonable care may make the broker liable for any resultant loss on the grounds of negligence (*Strong and Another v. S. Allison & Co., Ltd.*). Insurances at Lloyd's can only be placed through the medium of a broker. As a rule, brokers and agents are recompensed for their services by the commission and brokerage paid by the companies and underwriters. Occasionally a fee may be charged the insured for special services rendered, in an advisory capacity or otherwise.

Insurance: Burglary.—The ordinary policy of this nature insuring the contents of trade premises covers the risks of burglary and housebreaking only, larceny seldom being included. The crime of burglary applies only to private dwellings, including the dwelling portion of business premises, and can only be committed at night—i.e., between the hours of 9 p.m. and 6 a.m. (*C. & D., 1925, II, p. 673*). Housebreaking occurs by day so far as dwelling-houses are concerned, but either by day or by night if other classes of buildings are entered. In the case of either crime there must be a breaking in and entering and the commitment of a felony, though in the case of burglary it is sufficient if the felony was intended. Policies sometimes define the loss as "following upon a forcible entry into the premises," but to constitute a forcible entry (i.e., breaking in and entering) it does not necessarily mean that doors or windows must be "forced" in the common sense of the word; a much smaller degree of force—even the turning of a door handle—will suffice. It is not necessary that a forcible entry should be made into the building from outside; it may be done by the opening of a door within the building. Larceny is defined in the Larceny Act, 1916, as being committed by a person who "without the consent of the owner, fraudulently and without a claim of right made in good faith, takes and carries away anything capable of being stolen with intent, at the time



The C.&D. Commercial Compendium



of such taking, permanently to deprive the owner thereof."

Proposals for the insurance of the contents of trade premises are usually required to be completed on a special form, and a survey is generally considered necessary. The proposal form requires, among other information, a general description of the stock, etc., to be insured, and shows separate items for (a) stock-in-trade, (b) goods in trust, (c) trade fixtures and fittings. Separate items may also be required for the insurance of any property of particular value likely to be insured. In the case of chemists' risks it is inquired whether valuable cameras or lenses are to be insured; if so, a separate amount will be set down on their account, and probably a higher rate will be charged than that applied to other stock. The maximum value of any single article must also be given. Cash and securities are only insured while in a locked safe and subject to special conditions. In addition to the provision for sums to be insured, the proposal form also seeks information as to the *full value* of the property; and on this the premium is, at least in part, based. Objection is often made to the suggestion that the full value of the contents of a building be insured against burglary, on the ground that a total loss is to all intents and purposes impossible. The underwriter, however, fixes his premium having regard to the maximum loss that is probable; and it is chiefly a matter of expediency whether it is arrived at by charging a small rate on the full value or a high rate on the maximum loss. The fairer method is to take the full value into account, because any fluctuations from year to year in the value of the stock are thereby reflected in the premium. Large warehouse stocks are often insured at a basic rate of, say, 3s. 6d. per cent. on the first £3,000 or so, one-half the rate (1s. 9d. per cent.) on the next £3,000, and one-quarter (10½d. per cent.) on the remainder. Policies are sometimes effected to pay what is known as "first loss," the sum insured being fixed at whatever amount the proposer considers would cover the greatest loss that could result from a single burglary. These policies should be free of average, but the rate of premium charged is necessarily heavy—often reaching 20s. per cent. or more, depending on the nature and the value of the goods at risk as well as on the security of the premises against burglarious attack. The conditions of a burglary policy are quite simple and call for no special comment, except, perhaps, that on the occurrence of a loss it is incumbent on the insured to give immediate notice to the police as well as to the company, and to take all practicable steps to discover and punish the guilty person and to recover the stolen goods. Firms who are in the habit of sending large amounts of money through the streets to or from a bank sometimes insure against loss of the money through robbery, theft, or any other cause, including, occasionally, that of misappropriation by the messenger. Such policies are effected at from 1s. 6d. per mille on the total amount carried in the course of the year.

Insurance: Capital Redemption.—See Insurance, Leasehold, etc.

Insurance: Chemists' Indemnity.—A form of policy drawn up to protect chemists, either retail or wholesale, in the event of claims being brought against them on account of errors, impurities in drugs or other goods supplied, or negligence in medical or surgical treatment rendered. That the risk is not regarded as a light one is evidenced by the fact that few insurers are prepared to issue such policies, while those that do so usually charge fairly substantial premiums. The objections of the insurers are threefold—first, that the consequences of an error in a single prescription are likely to prove serious; secondly, that an error in the preparation of a quantity of some drug may affect several people before the danger is realised; and thirdly, that the natural anxiety of the chemist that claims should be settled with more regard to promptitude than to cost, lest an undesir-

able publicity should have an adverse effect on his business, makes claim settlements difficult and often unduly expensive. The premiums charged for indemnities of this nature depend on the limit required and on the number of qualified assistants. A policy with a limit of, say, £2,000 for any one year, issued to a chemist employing two qualified assistants would cost about £10 15s. per annum, at current rates.

Insurance Companies.—British insurance companies have meritoriously acquired a universal reputation for stability, integrity and fair dealing that has earned them a large share of the world's business, despite the tariff "walls" and inequitable taxation that prevail in several countries. It is safe to say that insurance constitutes one of the largest of the invisible imports to which this nation owes the adjustment of its annual trade balance. Most of the leading companies have been established for seventy years or longer, and by prudent and cautious underwriting have built up massive funds for the security of the policy-holders. It should, however, be noted that the largest accumulations of funds belong to offices transacting life assurance business. They cannot, therefore, be regarded in the light of reserves or earned profit, since the bulk of the funds is necessary to cover the enormous liabilities which arise under an extensive life business. Most of the better-known companies are what are described as "composite" offices, transacting all classes of insurance business. Others handle one class only, but this group may be subdivided between several types of company. There are, for instance, the large life offices, many of them "mutual"; other companies specialise in different branches of the business, marine, engineering, etc.; then there are various insurance federations on a mutual basis, run in connection with particular trades; another type consists of a host of small local concerns dealing in glass business only.

Insurance companies fall into two groups in another respect, namely, those that are "tariff" and the remainder that are "non-tariff." The tariff offices have, so far as regards fire and certain other branches of insurance, uniform systems of rating, conditions, etc., for different classes of risk which they are mutually bound not to undercut. They also exchange information regarding undesirable clients and, generally, act in concert for the welfare of the business. Each group claims certain merits. The non-tariff offices profess that their rates are, on the whole, lower than the tariffs, that they are able to judge each proposal on its merits and treat favourably those that are specially desirable, without being bound by a hard-and-fast scale. The tariff companies, on the other hand, propound the view that the stability which is a fundamental necessity of insurance can only be conserved by tariff principles, since in the absence of such agreements the competitive rate-cutting that would ensue would infallibly weaken seriously even the strongest offices. They also maintain that experience over a long period has proved the equity of their rates, and that the existing competition is sufficient to ensure that overcharging does not take place. The idea of tariffs, rings or trusts is unpopular with the man in the street, but there are few trades nowadays wherein some protection of the sort is not regarded as a necessity. The formation or the establishment in this country of an insurance company is subject to regulations laid down under the Assurance Companies Act, 1909, which applies to the majority of the more important classes of business. Substantial deposits have to be lodged with the Paymaster-General, and copies of the annual statements of account, balance-sheet and certain supplementary information in prescribed form are required each year by the Board of Trade. The essential feature of insurance is security, and if this is not obtained the premium is wasted. While most insurance offices are of unquestionable strength, it is not so with all, and it is folly to be attracted by offers of cheap insurance from companies the stability or methods of which are open to the least doubt.



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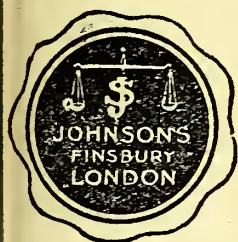
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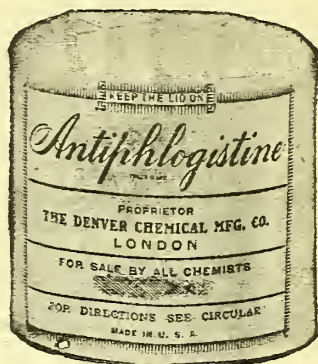
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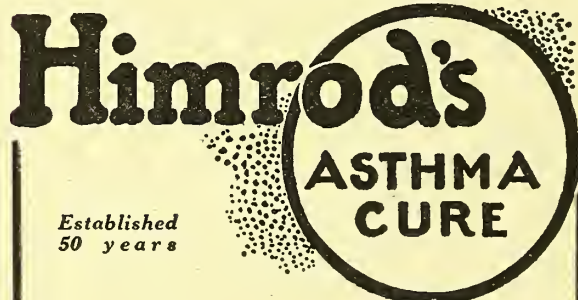
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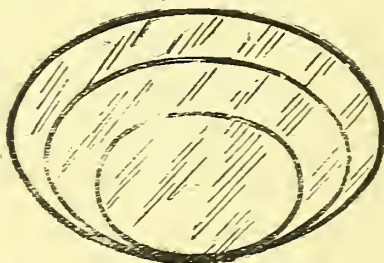
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3 6 per doz. Cartons
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Send at once for our Latest List of Up-to-Date Fittings, No. 698, post free.

J. C. KING, Ltd., The Chemists' Shopfitters
42-60 GOSWELL ROAD, E.C.1

Testimony
Craftsmen in Silverware

have given eloquent testimony to the superiority of "Town Talk" Silver Polish in that, for over 20 years, they have used, recommended and sold it to the exclusion of all other polishes.

TOWN TALK
is prepared specially for cleaning
Silver and Electroplated Ware

It is a speciality article; enjoys a quick sale; gives the retailer a generous profit. "Town Talk" is extensively advertised in the Press and we want you to sell it.

"Town Talk" Liquid Silver Polish
retails at 8d., 1 4, 2 6 per bottle.

"Town Talk" Silver Plate Cloths
retail at 9d., 1 6 each.

Address your enquiries for terms and supplies
to the Sole Makers:

TOWN TALK POLISH Co.
Whitby Street,
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The "ECONASIGN" will save you MANY POUNDS

A LONG FELT WANT

OUR MOTTO TO PLEASE

NEW LAID EGGS 2/6 DOZ

PURE SILK HOSE 10/6 Pair

REDUCTIONS

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FRESH DAIRY CREAM DAILY

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ADVERTISE YOUR GOODS

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WILL PRINT YOUR OWN SHOWCARDS, PRICE TICKETS, LABELS, ETC., AT INFINITESIMAL COST

ESPECIALLY USEFUL TO CHEMISTS

THE "SUPER" OUTFIT - - 60/- post free

THE "BIJOU SUPER" OUTFIT 32/6 " "

NO. 1 OUTFIT - - - - - 25/- " "

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OF EVERY DESCRIPTION.

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We make every description of bottle and can meet all your requirements.

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FOR ALL CHEMISTS' & DRUGGISTS' PURPOSES

Good Quality, well-finished tins printed to customers' own designs, in sizes and shapes for all uses.

*Samples and
Prices gladly.*

Write to-day.

Plain, gold-lacquered and stock design tins for ointments, pastes, health salts, etc.
Delivered from Stock.

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The LONDON OIL REFINING CO., MANCHESTER

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To the trade.

ESTABLISHED 1890.

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WHOLESALE ONLY.

Including ENEMAS, WHIRLING SPRAYS, SOOTHER FITTINGS, DOUCHE FITTINGS, POWDER and VANITY PUFFS, BRUSHES, COMBS, POWDER PUFF
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An absolutely pure spirit!

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This high-grade spirit is odour-free and can be used medicinally. It exceeds all B.P. requirements, and has withstood the most stringent tests known to the pharmacist.

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Cellophane can be had in sheets, all sizes and colours; also in the shape of **Bags, Discs, Envelopes**, printed or not, allowing the contents to be seen by transparency.

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Hydrous (Wool Fat) Anhydrous

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Chemical and Industrial Thermometers of all kinds. Hydrometers for all gravities.

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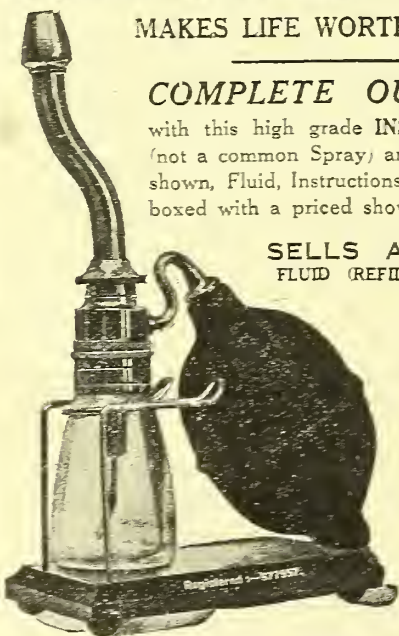
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BOTTLES BRANDED WITH CUSTOMER'S OWN NAME
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COMPLETE OUTFITS
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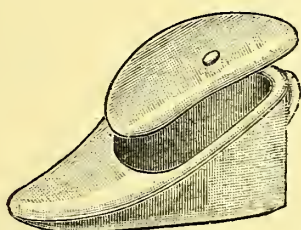
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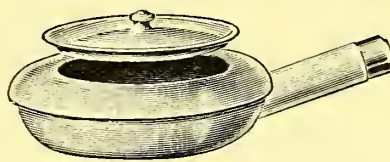
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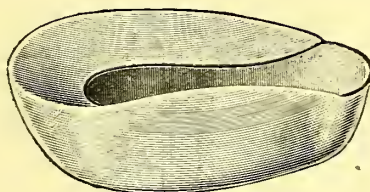
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WHOLESALE AND EXPORT ONLY

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**RENOWNED FOR EFFICIENCY
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A satisfied customer is always an asset to your business.

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Jackets and Coats of very superior quality, made from the most reliable materials, smartly cut and thoroughly well finished in every detail.

WHITE DRILL JACKETS	6/11, 8/11, 10/6
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STOCK SIZES. 34 to 44 chest ; measure over waistcoat. Special pockets and little adjustments can be made without extra charge. POSTAGE on single coat 9d., but 20/- orders upwards carriage paid. SPECIAL PRICES FOR LARGE QUANTITIES.

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Write to-day for full particulars.

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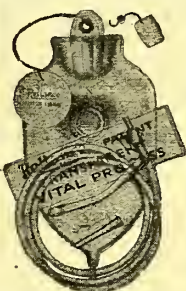
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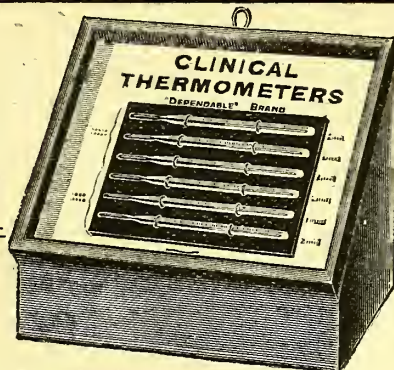
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The special "CLINBRITIC" series of CLINICALS is a range of the best instruments that can be made. The tubes are manufactured of standard gauge glass and the bulbs of normal glass. They are of British make throughout, distinctly marked and lettered, and all are "EASY-SET."

		Ordinary	Clinbritic Easy Set
Plain, 2 Minute	..	9/6	11/6
" 1 "	..	10/6	12/3
" 1/2 "	..	11/9	13/6
Lens, 2 "	..	10/3	11/8
" 1 "	..	12/2	13/8
" 1/2 "	..	13/-	14/6

N.P.L. 4/- Dozen Extra.

Red over Normal, 6d. Dozen Extra.
Each in N.P. metal case.

Customer's own name free on not less
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**THE LENS FRONTED INSTRUMENTS
HAVE A SPECIAL REGISTERED
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Counter Show-case with divided
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Britton, Malcolm & Waymark Ltd.
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1442 (2 lines)

*Safety at last
with
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*The Ready-for use Wound Dressing
Free Samples and Prices on application*

Edward Taylor Ltd.
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An effective, absolutely simple, cheap dressing, for the cure of
VARICOSE ULCERS, CHRONIC ECZEMA, INFLAMED ECZEMA.

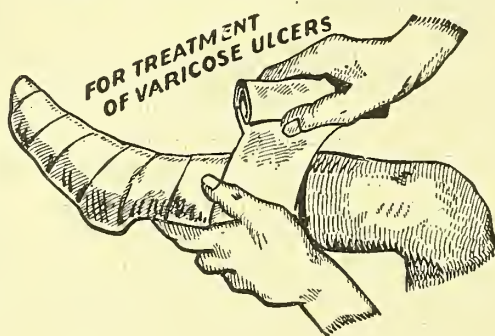
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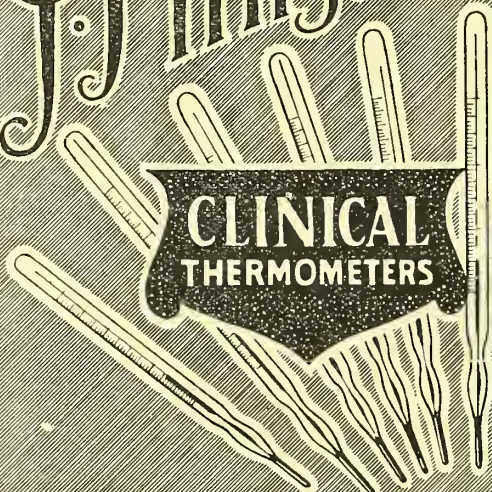
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Best sellers
The
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CLINICAL
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because they are:-
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Quality in Design and Finish
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Your own name
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"A Tower of Strength"

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EXTRACT OF MALT
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A perfect blend of Malt Extract made from selected barleys only and the finest Norwegian Cod Liver Oil obtainable. Best that science and money can produce.

Guaranteed absolutely pure
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MASON'S
EXTRACT OF HERBS
FOR PRIME BEER
KNOWN ALL OVER THE WORLD.

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Sent on 14 days' trial
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DUDLEY'S "ARGYLE"
CASH TILL.

Size 18 x 9 x 7½ in.

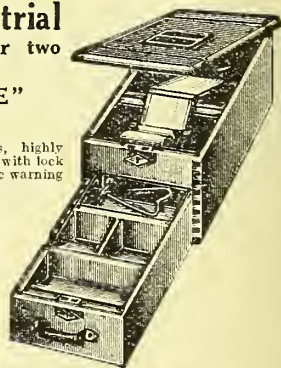
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Price 84/- each

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ATKINSON & BARKER'S INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'
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Prices and Terms on application to R. BARKER & SON, Ltd.
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Gala,
OPORTO.

DIRECT FROM
THE GROWERS.

To Chemists with Wine Licence only.

We are prepared to grant Agencies to licence holders for
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THAT NO ONE IS ALLOWED TO CUT.

The Ink is right and terms are right.
The sale increases every year, proving
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**JOHN BOND'S
CRYSTAL PALACE
MARKING INK**

Established 125 years, in the Reign of King George III.

6d. size 4/3 per doz., 9d. size 6/- per doz.

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Showing Retailers 30% on turnover on the
6d. size, and 33% on the 9d. and 1/- sizes.

A Linen Stretcher and Special Marking
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WHOLESALE TERMS:

MINIMUM—1 gross 6d., 44/-, or mixed order to same value,
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9d. Bijou Cabinets 60/- per gross net.

CARRIAGE PAID on parcels of £2 4s. 0d. and upwards.
When ordering, please specify if HEAT OR NON-HEAT is required.

22 YEARS ON THE P.A.T.A.

Manufactory: 75, Southgate Rd., London, N.1

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ALL SIZES AND SHAPES.

We offer two very good Machine-made lines, viz.:—

TABLETS, with **ALUMINIUM CAPS** and Wads
CANNON ESSENCES, Round, Heavy.

Please send us your enquiries.

Please ask for Prices of Stock Bottles and Lines not on our list.

Write or phone (Central 2430, 5 lines and 2 private lines).

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(Estab. 1888.)

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(Strictly Wholesale. Original crates only.)

**TRUST NOT IMITATIONS,
you can still obtain**

◉◉ **VISKAP** ◉◉
BOTTLE CAPS

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TRANSPARENT, OPAQUE, COLOURED, WHITE.**

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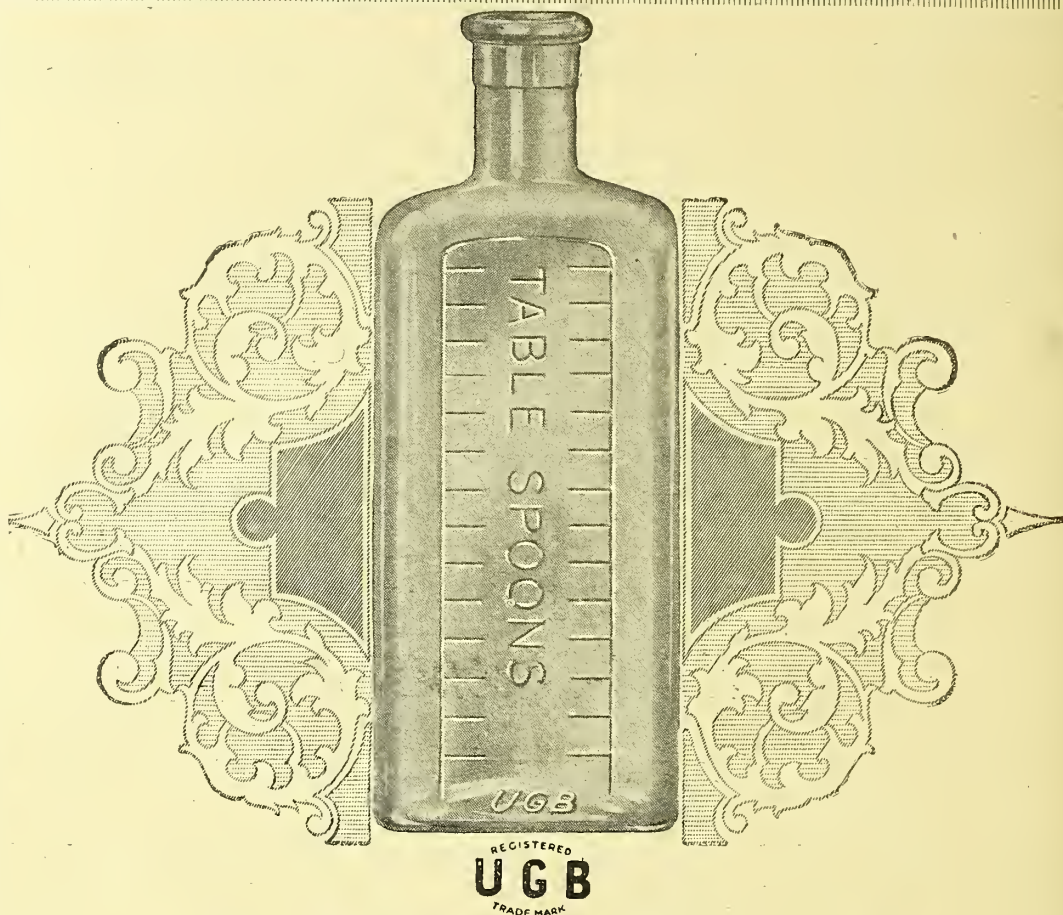
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*Yearly production
more than
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Every time you order medical bottles specify U.G.B.

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

MARCH 5, 1927

This Supplement is inserted in every copy of The Chemist & Druggist.

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Telegram: "Chemicus, Cannon, London" (2 words).

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Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

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2.—HOLLOWAY.—For immediate Disposal, through ill-health, medium-class Retail and N.H.I. Dispensing Business; returns about £2,400 at very good prices; double-fronted corner shop, with good working stock; ample living accommodation; garden; long lease; moderate rental; price to be arranged.

3.—ESSEX (Main Line).—General Retail Business, in thickly-populated district; returns, under female management, about £1,000; single-fronted shop with house of four rooms, scullery, etc.; rent £65; rates £16; held on lease, with option to purchase; price £700.

4.—LEWISHAM (Near).—For immediate Disposal, Cash Drug Stores, situate in good residential locality; returns last year, £911; under qualified management the returns can be largely augmented; rent £50; long lease; terms, stock and fixtures at valuation, and sum for goodwill to be agreed.

5.—LONDON, N.—Cash Business in working-class district, with scope for doing large amount of N.H.I.; returns £1,250; net profit £450; old-fashioned pharmacy; large house; rent £65; further details on application.

6.—DULWICH.—Middle-class Retail Business, with Kodak Agency; returns, under management, £1,300, with scope for increase; single-fronted, lock-up shop with room behind; lease 18 years to run; rent, £52 per annum inclusive; offers invited.

7.—MIDDLESEX.—Old-established Business; returns £2,100, with scope for increase under more energetic management; double-fronted shop, well fitted and stocked; small house; price £1,000 down and balance of £600 by agreed instalments.

8.—KENT (Near Coast).—Very old-established Retail, Dispensing and Photographic Business; returns £3,655; gross

profit £1,241; premises occupy best position in the town; good house, with bath-room; electric light; side entrance; 20 years' lease; price £2,750.

9.—OXFORDSHIRE.—Good middle-class Business, with Kodak Agency; returns £1,800, at usual prices; double-fronted shop; large house of eight rooms, bath-room, private entrance, garden; rent £72; one other chemist in town; price £1,350.

10.—BECKENHAM (Near).—Good middle-class Retail and Dispensing Business, capital situate in the centre of shopping thoroughfare; returns about £1,850; scope for development under personal supervision; value of stock and fixtures about £1,200; long lease; Vendor retiring; terms to be arranged equitably; excellent opportunity for man with energy.

11.—INLAND WATERING-PLACE.—Very old-established Business situate in one of the best positions in an attractive town; gross receipts between £7,000 and £8,000 yearly. The investment offers a good opening for two young, energetic men with capital at command. Further details on application.

12.—SOUTHERN COUNTY (Market Town).—Modern Cash Retail Business, with Kodak Agency; returns about £1,300, with scope for considerable increase; double-fronted shop, fitted in oak; prominent position in main street of the town; very moderate rent; 20 years' lease. Further details on application.

13.—MIDLANDS (Watering-Place).—Light Retail and Dispensing, with Kodak Agency and Wine Licence; returns £1,500, with scope for increase; gross profit 35 per cent.; double-fronted shop, well fitted in mahogany; rent £65; held on lease. Price to be arranged.

14.—SUSSEX (Progressive Health Resort).—General Retail Business, with Kodak and Ucal Agencies; fine corner premises in main road; returns £2,500, with net profit £600 to £700; large house, which could be partly sublet; new lease will be granted, or Freehold may be purchased; price of business £2,050; stock alone worth £1,000.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and valuation, it is often omitted and eventually becomes a fusion and loss.

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BUSINESSES FOR DISPOSAL

1.—MANCHESTER SUBURB.—Old-established Business in busy suburb; well fitted and stocked; corner position; good house; on lease; returns £700-£1,000, all cash; rent £50 p.a.; let off 14s. 6d. p.w.; price for quick sale £500 all at, or nearest offer. (74)

2.—NORTHUMBERLAND.—Recently-established Cash Pharmacy, with Kodak Agency; average takings £15 15s. per week, which could be considerably increased by energetic qualified man; lock-up shop, rent 5s. per week, house attached; price for goodwill and fixtures, £275; stock to suit purchaser; offers invited. (36)

3.—ALFRETON, DERBYS.—Old-established Business, held on lease, 7 years to run; rent £50 p.a.; returns over £2,000 p.a.; premises on main road, and consist of shop, large house, 4 outside warehouses and garage; proprietor devoting his time to optical business; price £1,500 all in, or £1,300 without optics; exceedingly good opportunity for energetic Chemist; well worth investigation. (84)

4.—YORKS.—£900 will purchase large double-fronted Shop with Warehouse attached on lease, with 9 years to run; returns £25 per week, nearly all cash; stock about £500; rent £50. Further particulars on application. (60)

5.—YORKS.—Good-class Dispensing and Retail Business in busy town; double-fronted shop with house attached in main road; returns £35 per week, all cash; stock about £700; Kodak Agency; price £850. Further particulars on application. (71)

6.—GRIMSBY.—£1,000 will be accepted for an old-established Business, freehold, taking £25 a week, all cash; house, shop, warehouse and cellar; stock amounts to approximately £200; death vacancy. Write for further particulars and order to view. (75)

7.—CHESTERFIELD.—Old-established, double-fronted shop, 3 warehouses, house, 6 rooms and cellars; lease can be obtained; returns £34 per week, practically all cash; stock £700; fixtures, fittings and goodwill £550; price for quick sale £1,100. (65)

8.—TO CLOSE A TRUST.—SALFORD.—Old-established corner Shop, with 3 large windows and large house, part of which could be sub-let; rent, £120 p.a.; returns, £2,000, all cash; price for goodwill, £300; stock and fixtures, about £900; well worth inspection; write for further particulars. (81)

9.—SUFFOLK.—Old-established good-class Dispensing and Optical Business on lease, 16 years to run, at £100 p.a.; good corner position; large, well-fitted windows; returns, £44 per week; stock about £900; good house attached, dining room, drawing room, 6 bedrooms, bathroom and kitchen; vendor has good reasons for disposal; offers invited; fullest particulars on application.

10.—LONDON, W.—Old-established Dispensing and Family Retail Business in good residential neighbourhood; on lease 13 years to run at £30 p.a.; rates £15; stock about £450; fixtures and fittings £300; offers invited. Further particulars on application.

11.—LIVERPOOL.—Wholesale Manufacturing Chemist's (principally packed goods); established 7 years; turnover £5,000 per annum, improving; lease 9 years to run at £150 per annum; commodious premises and well adapted, including own printing plant; stock, plant and machinery, about £2,750. Offers invited. Thorough inspection given.

12.—FOLKESTONE.—Small modern Pharmacy, recently established; easily worked; no near opposition; on lease, 18 years to run, at a rental of £45 per annum; rates £12; stock about £400; fixtures, £200; returns, £20 per week; N.H.I. average 100 per month; nicely situated; cash price for quick sale, £750. Further particulars on application. (95)

13.—LONDON, S.E.—Drug Stores, situate in busy thoroughfare; on lease, seven years to run, at a rental of £80 per annum; rooms above shop let off at 21s. 6d. per week; returns last year, £950; could be considerably increased (at present under management); price £450, or near offer. Further particulars on application. (94)

14.—LEEDS.—Retail Chemist; established 23 years; lease can be arranged; main road; large premises; house accommodation; returns £2,000 p.a.; excellent opportunity for energetic man. Further particulars on application to above address, or Mr. J. A. B. Heaton, 47 Park Square Chambers, Leeds.

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

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2.—BEDS.—Sound light Retail Business, in busy town, growing district; returns, £1,900; audited books; low rent; lock-up shop, fully stocked; ill-health necessitates selling; price, £1,500; valuation terms arranged.

3.—YORKSHIRE COAST (Popular Seaside Resort).—Sound light Retail, with Kodak Agency; excellent position; growing district; returns about £1,300; large attractive shop; well stocked; price £850.

4.—BIRMINGHAM.—Neglected Branch Business; returns last year £1,150; previous average £1,400; only needs proper attention; low rent; good lease; well stocked; price £750, or close offer; bargain.

5.—ESSEX (10 miles out).—Well-established Business in good position; has been neglected; present returns £20 weekly; plenty of scope; convenient house; low rent; well stocked; price £700.

6.—YORKS.—Light Cash Retail; under unqualified owner; neglected; returns £1,287; plenty of scope; main road position; rapidly growing district; low rent; small house; price £750; recommended.

7.—LONDON, E.—Quick Cash Retail, in good position; returns £1,500, increasing; lock-up shop; good stock; illness sole cause of selling; price £450.

8.—HITHER GREEN (Near).—Cash Drng and Photographic Store; no near opposition; returns over £900; excellent prospects for Chemist; low rent; on lease; house attached; double-fronted Pharmacy; well stocked; price £500, or valuation terms.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

5s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

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GLOUCESTER.—Established Business, main thoroughfare, corner shop, growing district; present hands 18 years; owner retiring; Mixed Retail, Dispensing and N.H.I.; well-built house, 6 rooms, bathroom, and garden; gas and electric light; rates under £20; net profits over 30%; freehold property and business £1,600. 154/19, Office of this Paper.

KENT COAST TOWN.—Well-fitted and stocked; turnover last 3 years over £30 weekly; excellent prospects for improvement. Further particulars, P.C.B. 6/19, Office of this Paper.

LANCS COAST (fashionable seaside resort).—High-class Dispensing and Family Retail Business, with Photography; spacious lock-up shop and large store rooms; in main thoroughfare; corner position; present turnover £2,000; can be doubled; C.A. figures; long lease. Further particulars on application to "Genuine," 151/2, Office of this Paper.

LONDON, S.W. (Station).—Chemist wishes to dispense of his main Shop and Branch owing to ill-health; both shops well fitted and fully stocked; main shop established over 100 years; combined turnover approximately £3,500, and sadly neglected at that; 20 years' lease at both, and vacant possession at main shop of house, garden and garage; valuation or lump sum offer, about £3,500; principals furnishing bankers' and trade references only acknowledged. 154/29, Office of this Paper.

SEASIDE Business, Yorkshire Coast, Retail, Dispensing; Kodak Agency; excellent main road position; good residential district; large, attractive, lock-up shop on lease; well fitted and stocked; season commencing shortly; district growing; good opportunity; no triflers; price, £850. 155/36, Office of this Paper.

SOUTH-EAST COAST.—Genuine old-established Chemist Business in good thoroughfare; commanding, unopposed position nearest principal hotels, boarding houses, sea front, and best residential district; splendidly re-fitted and re-fronted throughout two years ago; excellent freehold property; returns increasing under manager; greatly increased scope if personally conducted; spacious accommodation for Photographic and Optical Departments; only genuine investors with capital to purchase business and freehold property entertained, in the strictest confidence; no agents. Apply 99/388, Office of this Paper, giving full particulars of capital at disposal.

SOUTHEND-ON-SEA.—Chemist's, well established, main road, bold corner shop and 7-roomed house, bath room, etc., large yard; separate entrance to house, part of which is let off at £150; rent of whole £200, or shop and parlour only £125 per annum; long lease; turnover, under management, exceeds £2,000 and Panel; could be doubled; price £1,150 all at or offer. Noble, 11 Warwick Road, Thorpe Bay, Essex.

SOUTH WALES.—General Cash Retail, Dispensing and Photographic Business; returns, £25 weekly; scope for increase; large double-fronted lock-up shop, etc., nicely fitted and stocked; low rent; valuation stock and fittings only; suit beginner or other; part of purchase price can be arranged for later payment; immediate entry; no agents. 157/6, Office of this Paper.

YORKSHIRE (South).—Excellent small old-established Cash Business; growing business in growing district; takings, £23 p.w.; new lease; rent, £60; small house; inclusive price, £550. Full particulars, write 156/27, Office of this Paper.

ATTRACTIVE Pharmacy in excellent suburban district for disposal on dissolution of partnership; main road position; modern fittings and stock; Kodak Agency; price £1,500; stock at valuation; part may remain. Full particulars write "W. K.," 162 Sutherland Avenue, London, W.9.

CHEMISTS and Druggists; rapidly developing country town; well-fitted shop; 6 living rooms; good garden; long lease at moderate rent; price £750, or near offer, ill-health cause sale. Weston, Agent, 10 Sutherland Avenue, W.9.

COUNTRY Pharmacy; large commanding lock-up shop; under flats; established 25 years; well fitted; well stocked; average returns with manager £2,400 per annum, audited, at good profits, on 3 years' lease at £75; premises could be bought; owner retiring. 153/16, Office of this Paper.

FOR Sale or Partnership, small Pharmacy or Drug Store in mining district; no opposition; good windows; full stock and fixtures; semi lock-up; long lease; rent 15s.; takings last week under unqualified youth £24; capital required £300 down, or £550 for lot. 147/26, Office of this Paper.

GROWING Business for Sale, West Midlands; reason for sale, owner buying manufacturing interest; price, £500. 157/18, Office of this Paper.

MAIN Road Business for Sale; good position; nicely fitted; well stocked; good lease; can be greatly improved; price, £800; good chance for a young qualified man. 156/19, Office of this Paper.

SOUND Chemist's Business, London, N., for immediate disposal for health reasons; Cash Retail, Dispensing (N.H.I.), and Photographic; large shop, well fitted, with electric light, and Kodak Agency; heavy stock, all good; long lease at exceptionally low rental; house let to nearly clear rent, £950; no offers; full particulars to bona-fide enquirers. This is a thoroughly genuine business, and will bear strictest investigation. 157/2, Office of this Paper.

BUSINESSES WANTED.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BUSINESS wanted; must show net profit of £600; London suburb preferred, but not essential. Particulars will be treated in strict confidence. "A.," 155/22, Office of this Paper.

CHEMIST, with small capital, wants main road business; must have living accommodation; London or near essential. Write full particulars to "London," 157/5, Office of this Paper.

WANTED, in or near London, neglected or Drug Store Business up to £130; living accommodation; cash waiting. "Alpha," P.C.B. 6/28, Office of this Paper.

WANTED, a well-established Business with room to increase; state turnover, rent, stock, etc.; capital available, £900. 156/190, Office of this Paper.

£200 FULL or part payment.—Drug Store required shortly in London or Home Counties; living accommodation essential. Please reply to "A. A.," 154/1, Office of this Paper.

AGENCIES.

AGENCIES for one or two high-grade lines required by small but established and progressive Manufacturing Perfumer doing business with leading Hairdressers; area, Midlands; advertisers are only interested in high-class goods and houses. 151/4, Office of this Paper.

INFANT and Invalid Food Manufacturers require the services of high-class Agency with staff of good Travellers to work North of England on commission terms. State full particulars of service offered, other lines carried, and commission expected to 153/36, Office of this Paper.

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THE Committee of Visitors invite Tenders for the supply of Drugs for the three months ending 30th June, 1927.

For form of tender apply, enclosing stamped, addressed envelope, to the Clerk of the Hospital, Severalls Mental Hospital, Colchester.

Sealed Tenders must be received not later than Saturday, 19th March, 1927, addressed to the Committee of Visitors, Severalls Mental Hospital, Colchester.

The Committee of Visitors do not bind themselves to accept the lowest or any Tender.

PARTNERSHIPS.

PARTNER wanted in Chemist Business; rapidly developing industrial district; capital necessary £500. Mr. Wilmshurst, Accountant, Hereford.

YOUNG qualified Assistant wanted, single, willing to invest small capital in growing business; small salary and interest; commence duties soon. Confidential particulars as to capital, age, experience, qualifications, and photo to "Perekeg," 157/13, Office of this Paper.

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OVERSTOCKED.—Four dozen 1s. 3d. Owbridge, 43s.; Cherry Barks, 14 lbs. 1s. 1b., 28 lbs. 11d. 1b., 56 lbs. 10d. per lb.; 14 lbs. Ayrtton's Sulphur Lime Juice Candy, 12s.; 3 dozen 6d. Lung Pines, 8s. 6d.; first-class condition. "Chemist," 98 Waterford Street, Fulham, London, S.W.

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EASTBOURNE.—A particularly fine opening for a Chemist in one of the finest central shopping positions of this well-to-do town; practically no competition; premises adjoining are in occupation of leading restaurateurs, furriers and costumiers, while overhead is a block of 25 spacious residential flats; a long lease will be granted on a bright lofty shop at a moderate rent to an approved tenant. Apply Messrs. Hillier, Parker, May & Rowden, 27 Maddox Street, W.1.

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CHESHIRE.—Qualified Manager, married, required immediately to take charge of a very promising business; interest in the profits offered; excellent opportunity for a live man. 156/12, Office of this Paper.

CHICHESTER.—Junior required, male, for good-class Dispensing and Photo business; some knowledge of photography essential. Apply, stating full particulars, to Bastow, Ph. Chemist, Chichester.

LEICESTER (Central).—Reliable, experienced Assistant required for good-class Dispensing and Retail business. Please state age, experience and salary required to Sidney T. Palmer, Homeopathic Pharmacy, Halford Street, Leicester.

LONDON.—Lady Assistant, M.P.S.; Counter and Dispensing; good-class business. Apply, giving full particulars and salary required, Epsom, Chemist, 41 Quernmore Road, N.4.

LONDON.—Two Assistants required, one qualified male and one unqualified lady. Apply, with full particulars of experience, stating age, height, etc., or personally, King, Chemist, 114 Fortess Road, Kentish Town, N.W.5.

LONDON, W.2.—Manager for branch (outdoor), age 28 to 40, with previous West-End experience; also well-educated youth or young lady as Apprentice. Write, with full particulars, 154/23, Office of this Paper.

LONDON, N.—Lady Assistant wanted; competent; Dispensing and Counter. Apply, giving full particulars of age, experience and salary required, to Dow Bros., 44 Seven Sisters Road, Holloway, N.7.

LONDON, S.W.—Qualified Assistant (gentleman), with good Counter and Dispensing experience; knowledge of Photography useful. 156/10, Office of this Paper.

LONDON, S.W.—Assistant, unqualified, age about 23, required shortly for good Dispensing and Retail business; quick and accurate Dispenser essential. Please state full particulars of experience, references and salary required to 156/36, Office of this Paper.

LONDON SUBURB.—Qualified Branch Manager required immediately for middle-class Retail, N.H.I. and Photographic Business, recently established; must be good Window-dresser and capable Salesman; permanency to suitable man. Apply, stating age, experience, salary required, references, etc., to 155/34, Office of this Paper.

MANCHESTER.—Branch Manager; married; good living accommodation; one well up in Dispensing, Photographic, Window and Counter Dressing; state age, salary, experience, enclose photograph and references first letter. Balf Bros., 166 Rochdale Road, Harpurhey, Manchester.

MANCHESTER.—Qualified Assistant wanted for progressive business in populous district, with view to succession; Partnership considered if desired; good Salesman and accurate Dispenser. In reply, state nationality, age, experience, references and salary required. 157/3, Office of this Paper.

SHEFFIELD.—Qualified Counter Assistant; outdoors; no Sunday duty; knowledge of Photography essential; quick cash retail. State age, with full particulars of previous experience and enclose photo; letters only. H. G. Williams, 118 The Moor.

SOUTH-EAST COAST.—Wanted by established Chemist capable Manager to open Branch; small financial interest; good living accommodation. 157/20, Office of this Paper.

SOUTH KENSINGTON.—Unqualified Assistant, not under 28; active and a quick Dispenser; no N.H.I.; one accustomed to a high-class Pharmacy; two kept; usual hours, outdoors, and 5 hours' Sunday duty taken fortnightly. Newman Howard Schollar, M.P.S., 29 Sussex Place, S.W.7.

UXBRIDGE.—Wanted, smart Assistant, not over 25. State salary required, send photo, references, and full particulars to Brice & Son, Chemists, High Street, Uxbridge.

WILTS.—Assistant, qualified or unqualified, wanted about end of April for Country Business, Retail and Dispensing, with knowledge of Photography; good opportunity for a young, energetic and conscientious man. Apply, stating salary, with copies of recent references, 155/30, Office of this Paper.

WOLVERHAMPTON.—Martyns Stores, Ltd., require a capable qualified Assistant; no Sunday or holiday duty. Give full particulars in first letter.

ASSISTANT: lady or gentleman, M.P.S., required for March 19; must be an accurate and quick Dispenser; moderate salary; 38 miles from London. Reply 156/6, Office of this Paper.

BRANCH Manager required in medium-class district; Light Retail and N.H.I. Dispensing; outdoors; permanency. Please give full particulars in first letter. 154/27, Office of this Paper.

BRANCH Manager, qualified, wanted in a week or two for middle-class business. Apply, by letter in first place, giving particulars of age, experience and salary required, to Mills, Chemist, Meahouse Brow, Stockport.

CAPABLE Assistant required; Window-dressing, Photography; good-class store business; sound references; capable of taking charge; good Stock-keeper and Salesman. Durbins Drug Stores, 50 Broadway, Wimbledon. Telephone 0458.

JUNIOR Assistant or Improver, Light Retail, Dispensing, Photography; suit one just finished apprenticeship. "Chemist," 30 Northfield Avenue, West Ealing, W.13.

JUNIOR or Improver for riverside district, London, well up in Dispensing and D. & P. work; every encouragement to capable young man; Sect preferred. Fullest particulars in application. Address 155/35, Office of this Paper.

LADY, qualified, for working-class business in Manchester. Give all details, age, height, experience, references, salary required, photo (if possible) to 150/40, Office of this Paper.

LADY Superintendent, fully qualified, wanted for Wholesale and Retail business, London, W.C.; knowledge of Book-keeping essential; age and salary required. P.C.B. 5/7, Office of this Paper.

LADY qualified wanted for a small branch; N.H.I., Photography and general business; no heavy trade. Apply, with references, salary required (outdoors), age, height, enclosing photo, and when disengaged. Apply H. T. Maundrell, Milton Regis, Sittingbourne, Kent.

LADY, qualified, required at once; good-class business; residential district; Dispensing and Counter, knowledge of Photographics and Window-dressing. Age, height, salary required and full particulars to 155/37, Office of this Paper.

LADY Dispensers (Hall Certificate) for Chelmsford, Camden Town and Watford districts, with good Dispensing and Counter experience. Apply, with full particulars, to 99/397, Office of this Paper.

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MANAGER for Drugs and Toilet Section in Department Stores, Midlands; high-class; Photo; no dispensing. State age, salary required, experience, etc. 153/15, Office of this Paper.

MANAGER for London district; must have had experience of good-class, up-to-date business. Apply, with full particulars; to 99/395, Office of this Paper.

MANAGER required; Ealing district; keen, energetic, able to build up business; house accommodation available. Apply, with full particulars, to 99/396, Office of this Paper.

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QUALIFIED Assistant; age 25 to 30; permanency; knowledge of Photography and smart Window-dresser essential; high-class Pharmacy. Please state full particulars and salary required in first letter. All letters not answered in four days respectfully declined. Atkinson, Chemist, The Strand, Torquay.

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QUALIFIED Assistant wanted for Dispensing Counter; knowledge of Optics useful; also qualified Relief Manager. Apply, stating age, salary, experience in first letter, to Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, London, E.2 (10 minutes from Liverpool Street Station).

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WANTED, qualified Chemist; state references. T. R. Milburn, 147 Northumberland Street, Newcastle-on-Tyne.

WANTED, Chemist for N.H.I. on Thursday evenings. Apply 153/9, Office of this Paper.

WANTED, Improver or young Junior. Age, experience and salary to Comyns, Chemist, Carshalton.

WANTED, qualified lady Chemist (aged about 30), able to take charge of Retail and Dispensing; knowledge of Photography essential. State experience and salary required. 154/30, Office of this Paper.

WANTED, Manager; qualified; good knowledge of Optics; modern ideas, up-to-date Window Dresser. Particulars and recent references, salary, etc., in first letter. Gelston, 10 Winchester Street, Basingstoke.

WANTED, a Qualified or Unqualified Assistant, with good knowledge of Photography. Apply, stating age, salary and references, to 156/9, Office of this Paper.

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WHOLESALE.

LONDON firm of Manufacturing Chemists require Junior in Buying Office to assist in purchase of labels, cartons and literature; one able to revise technical proofs and check deliveries of printed matter and other material; some experience in drug trade printing essential. Write full particulars and state salary expected to 97/317, Office of this Paper.

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A CHEMIST-OPTICIAN, M.P.S., F.S.M.C.; middle-age; excellent credentials; moderate salary if prospects good. Address 156/14, Office of this Paper.

A YOUNG lady, Hall qualification, experienced, good references, disengaged, desires post in London area. 156/28, Office of this Paper.

ACTIVE; disengaged; Manager or Locum; any period; large varied experience; good Counterman; quick Dispenser. "Pharmacies," 78 Derby Street, Moss Side, Manchester.

AN experienced, unqualified Manager, 30, desires situation; City or S.E. district preferred, but not essential; excellent references; used to taking charge; quick Counterman, Dispenser, Photography. BM/BHMF, London, W.C.1.

AS temporary, whole- or part-time Assistant; unqualified; all-round experience; good reference given. P.C.B. 6/2, Office of this Paper.

AN unqualified gentleman, 31, thorough knowledge Photography, desires control D. & P. Department; best work only; willing to help other departments in spare time; Salesman, displays, etc.; security given as proof of keenness; permanency. 156/26, Office of this Paper.

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ASSISTANT, unqualified, 7 years' experience, 24, smart appearance, Dispenser, first-class Salesman and Window-dresser, at present in high-class business, seeks progressive situation in London or suburbs; family reason. Apply "B.", 155/38, Office of this Paper.

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DISENGAGED April; Assistant; 22; good country, town and seaside experience; well recommended. Amos, 38 William Street, Kettering.

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EXPERIENCED Assistant, unqualified, age 27, height 6 ft., seeks berth in Birmingham or near; permanency or relief. 156/3, Office of this Paper.

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LADY Dispenser desires to learn Optics with view to qualifying. Day, "Brimley," Richmond Road, Wolverhampton.

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MANAGER, qualified, married, capable, active, and thoroughly reliable, desires Locum or permanency; first-class references, trustworthy and conscientious; London only. Apply "Chemist," 580 Romford Road, Manor Park, E.12.

MANAGER, qualified, 46, married, desires change; London and provincial experience; 7 years present situation; living accommodation preferred. 156/24, Office of this Paper.

MANAGER; qualified; just sold business; age 42; height 5 ft. 8 in.; good appearance and address; Dispensing, Surgical, Photographic, Counter; abstainer. 156/22, Office of this Paper.

PART-TIME situation required by Student in London; evenings 5.30-8 p.m. or day work with evenings free; Dispensing, Counter; 12 years' experience; free beginning April. Hodder, "Vevey," Seaway Road, Paignton, Devon.

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QUALIFIED gentleman requires post in works as Manager, or would superintend Packing Proprietaries in Stores; wide experience. P.C.B. 6/24, Office of this Paper.

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TRAVELLER, connection high-class Stores, Chemists, Hairdressers, Lancs/Yorks, desires engagement; Toilet; Perfumery or Proprietary. State particulars and terms. 156/33, Office of this Paper.

UNQUALIFIED, 26, 7 years' Retail experience, desires correspondence or interview with Wholesale Manufacturers (Drugs or Perfumery) with view to suitable employment or representing. "Push," 193 Battersea Park Road, S.W.11.

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